

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=AND</i>			
<u>L10</u>	L3 and (GPCR)	11	<u>L10</u>
<u>L9</u>	L3 and (GPCR)	11	<u>L9</u>
<u>L8</u>	L7 and (modulator)	19	<u>L8</u>
<u>L7</u>	L3 and (ion adj channel)	32	<u>L7</u>
<u>L6</u>	L3 and (assay or screening)	75	<u>L6</u>
<u>L5</u>	L4 and (GPCR)	11	<u>L5</u>
<u>L4</u>	L3 and (assay or screening)	75	<u>L4</u>
<u>L3</u>	(PDZ adj domain) or (transducisome)	95	<u>L3</u>
<u>L2</u>	Zuker-charles-\$\$.in.	3	<u>L2</u>
<u>L1</u>	Zucker-charles-\$\$.in.	0	<u>L1</u>

END OF SEARCH HISTORY

PDZ domain-containing protein, 9BP-1, which binds to wildtype, but not a transformation-defective, C-terminal, mutant 9ORF1 protein. The fact that \*PDZ\* \*domains\* complex with specific sequences at the free C-terminal end of some proteins led to the recognition that the 9ORF1 C-terminal region contained such a consensus-binding motif. This discovery prompted investigations into whether the 9ORF1 protein associates with additional cellular proteins having \*PDZ\* \*domains\*. It was found that the 9ORF1 protein interacts directly, in vitro and in vivo, with the PDZ domain-containing protein hDIG/SAP97 (DLG), which is...

?ds

Set	Items	Description
S1	5	(TRANSDUCISOME)
S2	3	RD (unique items)
S3	855	(PDZ (W) DOMAINS) OR (GLGF (W) REPEATS) OR (DHR (W) DOMAIN-S)
S4	14	S3 AND (VECTOR OR PLASMID)
S5	13	RD (unique items)
S6	0	S5 AND (GPCR)
S7	0	S5 AND (MODULATOR OR AGONIST OR ANTAGONIST)
S8	40	S3 AND (SCREENING)
S9	6	S8 AND (TRANSFORMED OR TRANSFECTED)
S10	4	RD (unique items)
S11	21	RD S8 (unique items)

?logoff

11jul02 08:14:07	User259876	Session D365.2
\$1.87	0.585	DialUnits File155
	\$2.73	13 Type(s) in Format 3
	\$2.73	13 Types
\$4.60	Estimated cost	File155
	\$3.83	0.683 DialUnits File5
	\$38.50	22 Type(s) in Format 3
	\$38.50	22 Types
\$42.33	Estimated cost	File5
	\$4.24	0.471 DialUnits File73
	\$15.00	6 Type(s) in Format 3
	\$15.00	6 Types
\$19.24	Estimated cost	File73
	OneSearch, 3 files,	1.739 DialUnits FileOS
\$2.60	TELNET	
\$68.77	Estimated cost this search	
\$69.14	Estimated total session cost	1.832 DialUnits

### Status: Signed Off. (12 minutes)

```
### Status: Path 1 of [Dialog Information Services via Modem]

### Status: Initializing TCP/IP using (UseTelnetProto 1 ServiceID pto-dialog)
Trying 31060000009999...Open

DIALOG INFORMATION SERVICES
PLEASE LOGON:
***** HHHHHHHH SSSSSSSS?
### Status: Signing onto Dialog
*****
ENTER PASSWORD:
***** HHHHHHHH SSSSSSSS? *****
Welcome to DIALOG
### Status: Connected

Dialog level 02.05.22D

Last logoff: 08jul02 10:40:58
Logon file001 11jul02 08:02:13
    *** ANNOUNCEMENT ***
    ***
--Important Notice for Japanese KMKNET Users
KMKNET will be terminated on 5/31/02. Please
switch to DLGNET. Please refer to the G-Search
home page at http://www.g-search.or.jp
for more information.
    ***
--SourceOne patents are now delivered to your
email inbox as PDF replacing TIFF delivery.
See HELP SOURCE1 for more information.
    ***
--Important news for public and academic
libraries. See HELP LIBRARY for more information.
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--Important Notice to Freelance Authors--
See HELP FREELANCE for more information
    ***
For information about the access to file 43 please see Help News43.
***
NEW FILES RELEASED
***AGROProjects (File 235)
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***ARCHIVES OF OPHTHALMOLOGY - SUBSCRIBERS (File 797)
***ARCHIVES OF OTOLARYNGOLOGY - SUBSCRIBERS(File 798)
***ARCHIVES OF PEDIATRIC & ADOLESCENT MEDICINE-
Subscribers (File 789)
***ARCHIVES OF SURGERY - SUBSCRIBERS (File 800)
***JAMA - Journal of the American Medical Association -
    Subscribers (File 785)
***MIRA (File 81)
***TRADEMARKSCAN-Japan (File 669)
    ***
UPDATING RESUMED
***Delphes European Business (File 481)
    ***
RELOADED
***CANCERLIT (File 159)
***CLAIMS/US PATENTS (Files 340, 341, 942)
***Kompass Western Europe (File 590)
***D&B - Dun's Market Identifiers (File 516)
***Zoological Record Online (File 185)
```

REMOVED  
\*\*\*Lancet (File 457)  
\*\*\*Los Angeles Times (File 630)  
\*\*\*Baton Rouge Advocate (File 382)  
\*\*\*Washington Post (File 146)  
\*\*\*Books in Print (File 470)  
\*\*\*Court Filings (File 793)  
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\*\*\*State Tax Today (File 791)  
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IMED has been changed to INFOTRIE (see HELP OINFOTRI)

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>>> of new databases, price changes, etc. <<<  
\*\*\*\*\*

KWIC is set to 50.

HIGHLIGHT set on as '\*\*'

\*\*\* \*\*\*

File 1:ERIC 1966-2002/Jun 06  
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Set Items Description  
--- -----

Cost is in DialUnits

?b 155, 5, 73  
11jul02 08:02:28 User259876 Session D365.1  
\$0.32 0.093 DialUnits File1  
\$0.32 Estimated cost File1  
\$0.05 TELNET  
\$0.37 Estimated cost this search  
\$0.37 Estimated total session cost 0.093 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155: MEDLINE(R) 1966-2002/Jul W1

\*File 155: Daily alerts are now available. This file has been reloaded. Accession numbers have changed.

File 5:Biosis Previews(R) 1969-2002/Jul W1  
(c) 2002 BIOSIS

File 73: EMBASE 1974-2002/Jul W1  
(c) 2002 Elsevier Science B.V.

\*File 73: For information about Explode feature please see Help News73.

Set Items Description  
--- -----

?s (transducisome)  
S1 5 (TRANSDUCISOME)  
?rd  
...completed examining records  
S2 3 RD (unique items)  
?t s2/3,k/all

2/3,K/1 (Item 1 from file: 155)  
DIALOG(R) File 155: MEDLINE(R)

10575721 20116886 PMID: 10653185

**The PDZ assembled "\*transducisome\*" of microvillar photoreceptors: the TRP/TRPL problem.**

Paulsen R; Bahner M; Huber A

Department of Cell- and Neurobiology, University of Karlsruhe, Germany.

Pflugers Archiv : European journal of physiology (GERMANY) 2000, 439

(3 Suppl) pR181-3, ISSN 0031-6768 Journal Code: 0154720

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**The PDZ assembled "\*transducisome\*" of microvillar photoreceptors: the TRP/TRPL problem.**

... are activated upon light-absorption in rhabdomeral photoreceptor membranes of fly compound eyes. Whereas TRP is associated with other signaling proteins into a multiprotein complex (\*transducisome\*), the molecular organization of TRPL is discussed controversially. We analysed the TRPL content of blowfly rhabdomeral membranes and investigated by co-immunoprecipitation studies whether or not TRPL is part of the \*transducisome\*. Compared to TRP there are at least ten times less TRPL molecules present in the rhabdomeral membrane. A small fraction of the total TRPL present co-immunoprecipitates with other proteins of the \*transducisome\* and vice versa. Our data suggest that a significant fraction of TRPL is not incorporated into the \*transducisome\*. This fraction may either form independent ion channels or bind to the \*transducisome\* transiently.

2/3,K/2 (Item 1 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11957043 BIOSIS NO.: 199900203152

**PDZ domains: Fundamental building blocks in the organization of protein complexes at the plasma membrane.**

AUTHOR: Fanning Alan S(a); Anderson James Melvin

AUTHOR ADDRESS: (a)Section of Digestive Diseases, Yale University School of Medicine, New Haven, CT, 06520-8019\*\*USA

JOURNAL: Journal of Clinical Investigation 103 (6):p767-772 March, 1999

ISSN: 0021-9738

DOCUMENT TYPE: Article

RECORD TYPE: Citation

LANGUAGE: English

**DESCRIPTORS:**

CHEMICALS & BIOCHEMICALS: ...\*transducisome\*

2/3,K/3 (Item 2 from file: 5)  
DIALOG(R) File 5: Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11038424 BIOSIS NO.: 199799659569

**A multivalent PDZ-domain protein assembles signalling complexes in a G-protein-coupled cascade.**

AUTHOR: Tsunoda Susan; Sierralta Jimena; Sun Yumei; Bodner Ruth; Suzuki Emiko; Becker Ann; Socolich Michael; Zuker Charles S(a)

AUTHOR ADDRESS: (a)Howard Hughes Med. Inst., Dep. Neurosci., Univ. California at San Diego, La Jolla, CA 92093-0649\*\*USA

JOURNAL: Nature (London) 388 (6639):p243-249 1997

ISSN: 0028-0836

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: signalling complexes that lack the target protein and display corresponding defects in their physiology. A picture emerges of a highly organized unit of signalling, a '*\*transducisome\**', with PDZ domains functioning as key elements in the organization of transduction complexes *in vivo*.

?ds

Set	Items	Description
S1	5	(TRANSDUCISOME)
S2	3	RD (unique items)
?s (PDZ (w) domains) or (GLGF (w) repeats) or (DHR (w) domains)		
2551	PDZ	
184274	DOMAINS	
837	PDZ (W) DOMAINS	
86	GLGF	
65099	REPEATS	
16	GLGF(W) REPEATS	
646	DHR	
184274	DOMAINS	
15	DHR(W) DOMAINS	
S3	855	(PDZ (W) DOMAINS) OR (GLGF (W) REPEATS) OR (DHR (W) DOMAINS)
?s s3 and (vector or plasmid)		
855	S3	
188986	VECTOR	
166432	PLASMID	
S4	14	S3 AND (VECTOR OR PLASMID)

?rd

...completed examining records

S5	13	RD (unique items)
----	----	-------------------

?s s5 and (GPCR)

13	S5	
1835	GPCR	

S6 0 S5 AND (GPCR)

?s s5 and (modulator or agonist or antagonist)

13	S5	
25361	MODULATOR	
244827	AGONIST	
365266	ANTAGONIST	

S7 0 S5 AND (MODULATOR OR AGONIST OR ANTAGONIST)

?t s5/3,k/all

5/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155: MEDLINE(R)

10562121 20095047 PMID: 10627592

Neuronal inwardly rectifying K(+) channels differentially couple to PDZ proteins of the PSD-95/SAP90 family.

Nehring R B; Wischmeyer E; Doring F; Veh R W; Sheng M; Karschin A  
Molecular Neurobiology of Signal Transduction, Max-Planck-Institut for Biophysical Chemistry, 37070 Gottingen, Germany.

Journal of neuroscience : the official journal of the Society for Neuroscience (UNITED STATES) Jan 1 2000, 20 (1) p156-62, ISSN 1529-2401 Journal Code: 8102140

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... and Kir3.4(-) subunits (+, motif present; -, motif absent) were used as baits in the yeast two-hybrid assay to screen for *in vivo* interaction with *\*PDZ\* \*domains\* 1-3 of PSD-95/SAP90*. In contrast to Kir2.1 and Kir2.3, all Kir3 fragments failed to bind PSD-95 in this assay...

... the entire proteins in mammalian cells. A detailed analysis of interaction domains demonstrated that the C-terminal motif in Kir3 channels is insufficient for binding \*PDZ\* \*domains\*. Kir2.1 and Kir2.3 subunits on the other hand coprecipitate with PSD-95. When coexpressed in a bicistronic internal ribosome entry site expression \*vector\* in HEK-293 cells macroscopic and elementary current analysis revealed that PSD-95 suppressed the activity of Kir2.3 channels by >50%. This inhibitory action...

**5/3,K/2 (Item 1 from file: 5)**  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13632631 BIOSIS NO.: 200200261452  
**The cytoplasmic domain of Kit ligand interacts with cellular proteins through a PDZ domain on the target protein.**  
AUTHOR: Wang Kan-Kan(a); Minden Mark D(a)  
AUTHOR ADDRESS: (a)Cell and Molecular Biology, Ontario Cancer Institute, Toronto, ON\*\*Canada  
JOURNAL: Blood 98 (11 Part 1):p797a-798a November 16, 2001  
MEDIUM: print  
CONFERENCE/MEETING: 43rd Annual Meeting of the American Society of Hematology, Part 1 Orlando, Florida, USA December 07-11, 2001  
ISSN: 0006-4971  
RECORD TYPE: Abstract  
LANGUAGE: English

...ABSTRACT: to the GAL4 transactivation domain, and clones growing in the absence of histidine were isolated. Positive clones were verified as true interactions by isolating the \*plasmid\* carrying the activation domain and transferring this into Y187 yeast containing GAL4-KL. Following verification, the clones were sequenced, identifying three different genes. These are...  
...domain. In the screen for KL interacting proteins, PRSS11 was isolated several times. In all cases the PDZ domain was present. Proteins that bind to \*PDZ\* \*domains\* usually do so through their extreme C terminal amino acids, the most important being the last and second to last positions; these are usually occupied...

DESCRIPTORS:  
CHEMICALS & BIOCHEMICALS: ...\*plasmid\*;

**5/3,K/3 (Item 2 from file: 5)**  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13308535 BIOSIS NO.: 200100515684  
**Identification of GRIP-1 as a potential interacting protein for the rat D3 dopamine receptor.**  
AUTHOR: Kim O J(a); Hower L M(a); Boivin M R(a); Sibley D R(a)  
AUTHOR ADDRESS: (a)NINDS/NIH, Bethesda, MD\*\*USA  
JOURNAL: Society for Neuroscience Abstracts 27 (1):p991 2001  
MEDIUM: print  
CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

...ABSTRACT: GRIP-1, (Glutamate Receptor-Interacting Protein-1) a scaffolding protein known to interact with AMPA receptors. Our partial-length cDNA contains the fourth and fifth \*PDZ\* \*domains\* of the GRIP-1 protein, which had previously been shown to be required for AMPA receptor interactions. The specificity of the interaction of the D3 DAR

and the partial-length P-1 clone was verified using a responding yeast expression \*vector\* that lacks inserts which showed no growth on -leu plates and no color change on X-gal plates. The partial-length GRIP-1 clone was...

**5/3,K/4 (Item 3 from file: 5)**  
DIALOG(R) File 5:Biosis Previews(R)  
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13149054 BIOSIS NO.: 200100356203

**Identification of functional PDZ domain binding sites in several human proteins.**

AUTHOR: Fabre Stephane; Reynaud Caroline; Jalinot Pierre(a)  
AUTHOR ADDRESS: (a)Laboratoire de Biologie Moleculaire et Cellulaire, UMR  
5665 CNRS-ENSL, 46, Allee d'Italie, 69364, Lyon Cedex 07:  
pjalinot@ens-lyon.fr\*\*France  
JOURNAL: Molecular Biology Reports 27 (4):p217-224 December, 2000  
MEDIUM: print  
ISSN: 0301-4851  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

...ABSTRACT: 15 was previously identified as a cellular protein that can bind to the C-terminal end of the HTLV-1 Tax protein via its two \*PDZ\* \*domains\*. The sequence of the N-terminal part of TIP-15 is identical to that of the synaptic protein PSD-95. Both proteins are likely to...

...METHODS & EQUIPMENT: gene expression/\*vector\* techniques, genetic method

**5/3,K/5 (Item 4 from file: 5)**  
DIALOG(R) File 5:Biosis Previews(R)  
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13114403 BIOSIS NO.: 200100321552

**\*PDZ\* \*domains\* of ZO-2 modulate RPE tight junctions.**

AUTHOR: Rizzolo L J(a); Peng S(a); Wilt S D(a)  
AUTHOR ADDRESS: (a)Surgery/Anatomy, Yale Univ, New Haven, CT\*\*USA  
JOURNAL: IOVS 42 (4):pS751 March 15, 2001  
MEDIUM: print  
CONFERENCE/MEETING: Annual Meeting of the Association for Research in Vision and Ophthalmology Fort Lauderdale, Florida, USA April 29-May 04, 2001  
RECORD TYPE: Citation  
LANGUAGE: English  
SUMMARY LANGUAGE: English

**\*PDZ\* \*domains\* of ZO-2 modulate RPE tight junctions.**

DESCRIPTORS:

...ORGANISMS: \*vector\*;

**5/3,K/6 (Item 5 from file: 5)**  
DIALOG(R) File 5:Biosis Previews(R)  
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13094126 BIOSIS NO.: 200100301275

**Interaction of serotonin 5-hydroxytryptamine type 2C receptors with PDZ10 of the multi-PDZ domain protein MUPP1.**

AUTHOR: Becamel Carine; Figge Andrea; Poliak Sebastian; Dumuis Aline; Peles Elior; Bockaert Joel; Luebbert Hermann; Ullmer Christoph(a)  
AUTHOR ADDRESS: (a)Biofrontera Pharmaceuticals AG, Hemmelratherweg 201, 51377, Leverkusen: ullmer@biofrontera.de\*\*Germany

JOURNAL: Journal of Biological Chemistry 276 (16):p12974-1982 April 20,

2001

MEDIUM: print

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: the yeast two-hybrid system, we previously isolated a cDNA clone encoding a novel member of the multivalent PDZ protein family called MUPP1 containing 13 \*PDZ\* \*domains\*. Here we report that the C terminus of the 5-hydroxytryptamine type 2C (5-HT2C) receptor selectively interacts with the 10th PDZ domain of MUPP1...

...the MUPP1 protein. Moreover, 5-HT2A and 5-HT2B, sharing the C-terminal EX(V/I)SXV sequence with 5-HT2C receptors, also bind MUPP1 \*PDZ\* \*domains\* in vitro. The highest MUPP1 mRNA levels were found in all cerebral cortical layers, the hippocampus, the granular layer of the dentate gyrus, as well...

...METHODS & EQUIPMENT: gene expression/\*vector\* techniques, genetic method...

5/3,K/7 (Item 6 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

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12663795 BIOSIS NO.: 200000417297

**Evidence for ezrin-radixin-moesin-binding phosphoprotein 50 (EBP50)  
self-association through PDZ-PDZ interactions.**

AUTHOR: Fouassier Laura; Yun C Chris; Fitz J Gregory; Doctor R Brian(a)

AUTHOR ADDRESS: (a)University of Colorado Health Sciences Center, 4200 East Ninth Ave., Denver, CO, 80262\*\*USA

JOURNAL: Journal of Biological Chemistry 275 (32):p25039-25045 August 11, 2000

MEDIUM: print

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: binding phosphoprotein 50 (EBP50) is a versatile membrane-cytoskeleton linking protein that binds to the COOH-tail of specific integral membrane proteins through its two \*PDZ\* \*domains\*. These EBP50 binding interactions have been implicated in sequestering interactive sets of proteins into common microdomains, regulating the activity of interacting proteins, and modulating membrane protein trafficking. With only two \*PDZ\* \*domains\*, it is unclear how EBP50 forms multiprotein complexes. Other PDZ proteins increase their breadth and diversity of protein interactions through oligomerization. Hypothesizing that EBP50 self...

...binding interaction indicates it is both saturable and of relatively high affinity. Analysis of truncated EBP50 proteins indicates EBP50 self-association is mediated through its \*PDZ\* \*domains\*. The ability to self-associate provides a mechanism for EBP50 to expand its capacity to form multiprotein complexes and regulate membrane transport events.

...METHODS & EQUIPMENT: gene expression/\*vector\* techniques, molecular genetic method

5/3,K/8 (Item 7 from file: 5)

DIALOG(R) File 5:Biosis Previews(R)

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12224168 BIOSIS NO.: 19 0519017

**Identification of syntenin as a protein of the apical early endocytic compartment in Madin-Darby canine kidney cells.**

AUTHOR: Fialka Irene; Steinlein Peter; Ahorn Horst; Bock Gunther; Burbelo Peter D; Haberfellner Michaela; Lottspeich Friedrich; Paiha Karin; Pasquali Christian; Huber Lukas A(a)

AUTHOR ADDRESS: (a)Research Institute of Molecular Pathology, Dr. Bohr Gasse 7, A-1030, Vienna\*\*Austria

JOURNAL: Journal of Biological Chemistry 274 (37):p26233-26239 Sept. 10, 1999

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: to be specifically enriched in apical or basolateral endocytic vesicles. An apical protein identified by microsequencing was the adaptor molecule syntenin. This protein contains two \*PDZ\* \*domains\* (PSD-95, Dlg, and ZO-1 homology) that bind syndecan and ephrin-B2 cytoplasmic domains. In MDCK cells, transiently overexpressed Myc-tagged syntenin localized to...

...METHODS & EQUIPMENT: gene expression/\*vector\* techniques, genetic method...

**5/3,K/9 (Item 8 from file: 5)**

DIALOG(R)File 5:Biosis Previews(R)

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12090529 BIOSIS NO.: 199900385378

**Cypher, a striated muscle-restricted PDZ and LIM domain-containing protein, binds to alpha-actinin-2 and protein kinase C.**

AUTHOR: Zhou Qiang; Ruiz-Lozano Pilar; Martone Maryann E; Chen Ju(a)

AUTHOR ADDRESS: (a)Dept. of Medicine, University of California at San Diego, School of Medicine, 9500 Gilman Dr., L\*\*USA

JOURNAL: Journal of Biological Chemistry 274 (28):p19807-19813 July 9, 1999

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: and striated muscle in embryonic and adult stages. By biochemical assays, we have demonstrated that Cypher1 and Cypher2 bind to alpha-actinin-2 via their \*PDZ\* \*domains\*. This interaction has been further confirmed by immunohistochemical studies that demonstrated co-localization of Cypher and alpha-actinin at the Z-lines of cardiac muscle...

...METHODS & EQUIPMENT: \*plasmid\* construction

**5/3,K/10 (Item 9 from file: 5)**

DIALOG(R)File 5:Biosis Previews(R)

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11708547 BIOSIS NO.: 199800490278

**Identification of sorting determinants in the C-terminal cytoplasmic tails of the gamma-aminobutyric acid transporters GAT-2 and GAT-3.**

AUTHOR: Muth Theodore R(a); Ahn Jinhi; Caplan Michael J

AUTHOR ADDRESS: (a)Dep. Cell Biol., Yale Univ. Sch. Med., New Haven, CT 06520\*\*USA

JOURNAL: Journal of Biological Chemistry 273 (40):p25616-25627 Oct. 2, 1998

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: the final three amino acids of GAT-3 (THF) similarly disrupts its apical sorting. The GAT-3 C-terminal sequence resembles motifs which interact with \*PDZ\* \*domains\*, raising the possibility that the steady state distribution of GAT-3 at the apical plasmalemmal surface requires a protein-protein interaction mediated by its extreme...

...METHODS & EQUIPMENT: gene expression/\*vector\* techniques, genetic method...

**5/3,K/11 (Item 10 from file: 5)**

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

11702506 BIOSIS NO.: 199800484237

**Novel anchorage of GluR2/3 to the postsynaptic density by the AMPA receptor-binding protein ABP.**

AUTHOR: Srivastava S; Osten P; Vilim F S; Khatri L; Inman G; States B; Daly C; Desouza S; Abagyan R; Valtschanoff J G; Weinberg R J; Ziff E B(a)

AUTHOR ADDRESS: (a)Howard Hughes Med. Inst., Dep. Biochem. New York Med. Cent., New York, NY 10016\*\*USA

JOURNAL: Neuron 21 (3):p581-591 Sept., 1998

ISSN: 0896-6273

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: isoxazole propionic acid (AMPA) receptor-binding protein (ABP), a postsynaptic density (PSD) protein related to glutamate receptor-interacting protein (GRIP) with two sets of three \*PDZ\* \*domains\*, which binds the GluR2/3 AMPA receptor subunits. ABP exhibits widespread CNS expression and is found at the postsynaptic membrane. We show that the protein...

...METHODS & EQUIPMENT: gene expression/\*vector\* techniques, genetic method...

**5/3,K/12 (Item 1 from file: 73)**

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

10667883 EMBASE No: 2000147106

**Neuronal inwardly rectifying K<sup>+</sup> channels differentially couple to PDZ proteins of the PSD-95/SAP90 family**

Nehring R.B.; Wischmeyer E.; Doring F.; Veh R.W.; Sheng M.; Karschin A. Dr. A. Karschin, Max-PlanckInst. for Biophys. Chem., Molec. Neurobiol. Signal Transduct., Am Fassberg 11, 37070 Gottingen Germany

AUTHOR EMAIL: akarsch@gwdg.de

Journal of Neuroscience ( J. NEUROSCI. ) (United States) 01 JAN 2000, 20/1 (156-162)

CODEN: JNRSD ISSN: 0270-6474

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 59

...and Kir3.4(-) subunits (+, motif present; -, motif absent) were used as baits in the yeast two-hybrid assay to screen for in vivo interaction with \*PDZ\* \*domains\* 1-3 of PSD-95/SAP90. In contrast to Kir2.1 and Kir2.3, all Kir3 fragments failed to bind PSD-95 in this assay...

...the entire proteins in mammalian cells. A detailed analysis of interaction domains demonstrated that the C-terminal motif in Kir3 channels is insufficient for binding \*PDZ\* \*domains\*. Kir2.1 and Kir2.3 subunits on

the other hand coprecipi e with PSD-95. When coexpresse n a bicistronic internal ribosome entry site expression \*vector\* in HEK-293 cells macroscopic and elementary current analysis revealed that PSD-95 suppressed the activity of Kir2.3 channels by>50%. This inhibitory action...

5/3,K/13 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

07848762 EMBASE No: 1999322183

**Molecular cloning of the cDNA and promoter sequences for the mouse sodium-hydrogen exchanger regulatory factor**

Weinman E.J.; Steplock D.; Zhang X.; Akhter S.; Shenolikar S.  
E.J. Weinman, Department of Medicine, West Virginia University, School of Medicine, 1 Medical Center Drive, Morgantown, WV 26505 United States  
AUTHOR EMAIL: eweinman@wvudeptmed1.hsc.wvu.edu  
Biochimica et Biophysica Acta - Gene Structure and Expression ( BIOCHIM. BIOPHYS. ACTA GENE STRUCT. EXPR. ) (Netherlands) 1999, 1447/1 (71-76)  
CODEN: BBGSD ISSN: 0167-4781  
PUBLISHER ITEM IDENTIFIER: S0167478199001001  
DOCUMENT TYPE: Journal; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 16

...NHE-RF cDNA, isolated from a mouse kidney cDNA library, predicted a polypeptide of 356 amino acids that shares striking sequence conservation within the two \*PDZ\* \*domains\* and in-vitro phosphorylation sites with the human and rat homologs. The nucleotide sequence 5' of the transcription start site, identified by primer extension analysis...

DRUG DESCRIPTORS:

complementary DNA--endogenous compound--ec; luciferase; cell protein --endogenous compound--ec; cytoskeleton protein--endogenous compound--ec; \*plasmid\* DNA--endogenous compound--ec; estrogen receptor--endogenous compound--ec; 7alpha [9 (4,4,5,5,5 pentafluoropentylsulfinyl)nonyl]estra 1,3,5(10) triene 3...

?ds

Set	Items	Description
S1	5	(TRANSDUCISOME)
S2	3	RD (unique items)
S3	855	(PDZ (W) DOMAINS) OR (GLGF (W) REPEATS) OR (DHR (W) DOMAIN-S)
S4	14	S3 AND (VECTOR OR PLASMID)
S5	13	RD (unique items)
S6	0	S5 AND (GPCR)
S7	0	S5 AND (MODULATOR OR AGONIST OR ANTAGONIST)

?s s3 and (screening)

855 S3

450645 SCREENING

S8 40 S3 AND (SCREENING)

?s s8 and (transformed or transfected)

40 S8

148472 TRANSFORMED

109981 TRANSFECTED

S9 6 S8 AND (TRANSFORMED OR TRANSFECTED)

?rd

...completed examining records

S10 4 RD (unique items)

?t s10/3,k/all

10/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

09776129 98198478 PMID: 9531559

ZO-3, a novel member of the MAGUK protein family found at the tight

**junction, interacts with ZO-1 and occludin.**

Haskins J; Gu L; Wittchen E S; Hibbard J; Stevenson B R  
Department of Cell Biology and Anatomy, University of Alberta, Edmonton,  
Alberta T6G 2H7, Canada.

Journal of cell biology (UNITED STATES) Apr 6 1998, 141 (1) p199-208  
, ISSN 0021-9525 Journal Code: 0375356

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... Darby canine kidney (MDCK) cells and subjected to partial endopeptidase digestion and amino acid sequencing. A resulting 19-amino acid sequence provided the basis for \*screening\* canine cDNA libraries. Five overlapping clones contained a single open reading frame of 2,694 bp coding for a protein of 898 amino acids with a predicted molecular mass of 98,414 daltons. Sequence analysis showed that this protein contains three PSD-95/SAP90, discs-large, ZO-1 (\*PDZ\*) \*domains\*, a src homology (SH3) domain, and a region similar to guanylate kinase, making it homologous to ZO-1, ZO-2, the discs large tumor suppressor...

...proteins. Like ZO-1 and ZO-2, the novel protein contains a COOH-terminal acidic domain and a basic region between the first and second \*PDZ\* \*domains\*. Unlike ZO-1 and ZO-2, this protein displays a proline-rich region between PDZ2 and PDZ3 and apparently contains no alternatively spliced domain. MDCK cells stably \*transfected\* with an epitope-tagged construct expressed the exogenous polypeptide at an apparent molecular mass of approximately 130 kD. Moreover, this protein colocalized with ZO-1...

**10/3,K/2 (Item 1 from file: 5)**

DIALOG(R)File 5:Biosis Previews(R)

(c) 2002 BIOSIS. All rts. reserv.

13024527 BIOSIS NO.: 200100231676

**The neuronal adaptor protein X11alpha interacts with the copper chaperone for SOD1 and regulates SOD1 activity.**

AUTHOR: McLoughlin Declan M; Standen Claire L; Lau Kwok-Fai; Ackerley Steven; Bartnikas Thomas P; Gitlin Jonathan D; Miller Christopher C J(a)

AUTHOR ADDRESS: (a)Dept. of Neuroscience, Institute of Psychiatry, De Crespigny Park, Denmark Hill, London, SE5 8AF: chris.miller@iop.kcl.ac.uk  
\*\*UK

JOURNAL: Journal of Biological Chemistry 276 (12):p9303-9307 March 23, 2001

MEDIUM: print

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

...ABSTRACT: participates in the formation of multiprotein complexes and intracellular trafficking. It contains a series of discrete protein-protein interaction domains including two contiguous C-terminal \*PDZ\* \*domains\*. We used the yeast two-hybrid system to screen for proteins that interact with the \*PDZ\* \*domains\* of human X11alpha, and we isolated a clone encoding domains II and III of the copper chaperone for Cu,Zn-superoxide dismutase-1 (CCS). The...

...delivers the copper cofactor to the antioxidant superoxide dismutase-1 (SOD1) enzyme and is required for its activity. Overexpression of X11alpha inhibited SOD1 activity in \*transfected\* Chinese hamster ovary cells which suggests that X11alpha binding to CCS is inhibitory to SOD1 activation. X11alpha also interacts with another copper-binding protein found...

...METHODS & EQUIPMENT: \*screening\* method

**10/3,K/3 (Item 2 from file: 5)**  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12913782 BIOSIS NO.: 200100120931  
**Clustering of stargazin by PSD-95.**  
AUTHOR: Chetkovich D M(a); Chen L; Bunn R C; Sweeney N T; Aguilera-Moreno A ; Nicoll R A; Bredt D S  
AUTHOR ADDRESS: (a)UCSF, San Francisco, CA\*\*USA  
JOURNAL: Society for Neuroscience Abstracts 26 (1-2):pAbstract No-7175  
2000  
MEDIUM: print  
CONFERENCE/MEETING: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000  
SPONSOR: Society for Neuroscience  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

...ABSTRACT: is a 36-kD protein subunit of the voltage gated calcium channel. The C-terminus of stargazin consists of the PDZ binding consensus sequence, -TPV\*. \*Screening\* a rat brain yeast 2-hybrid library with the C-terminal 120 amino acids of stargazin identified 18 positive clones, encoding the \*PDZ\* \*domains\* of PSD-95/93 and SAP97/102. When cotransfected with PSD-95 and PSD-93, robust surface clustering of stargazin was noted. Additionally, stargazin co-immunoprecipitated with PSD-95, PSD-93, SAP-97 and SAP102 from co-\*transfected\* COS-7 cells. The clustering of stargazin was dependent on the PDZ interaction, as no clustering was observed when PSD-95 was co-\*transfected\* with a stargazin construct containing a mutation of threonine residue 321 to alanine, a mutation predicted to disrupt PDZ-substrate interactions.

**10/3,K/4 (Item 1 from file: 73)**  
DIALOG(R) File 73:EMBASE  
(c) 2002 Elsevier Science B.V. All rts. reserv.

11302222 EMBASE No: 2001316415  
**Connexin45 directly binds to ZO-1 and localizes to the tight junction region in epithelial MDCK cells**  
Kausalya P.J.; Reichert M.; Hunziker W.  
W. Hunziker, Inst. of Molecular and Cell Biology, Epithelial Cell Biology Laboratory, 30 Medical Drive, Singapore 117609 Singapore  
AUTHOR EMAIL: hunziker@imcb.nus.edu.sg  
FEBS Letters ( FEBS LETT. ) (Netherlands) 07 SEP 2001, 505/1 (92-96)  
CODEN: FEBLA ISSN: 0014-5793  
PUBLISHER ITEM IDENTIFIER: S0014579301027867  
DOCUMENT TYPE: Journal ; Article  
LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH  
NUMBER OF REFERENCES: 23

...molecule to the actin cytoskeleton. The interaction between ZO-1 and claudin or junctional adhesion molecule occurs via the amino-terminal PSD95/Dlg/ZO-1 (\*PDZ\*) \*domains\* in ZO-1. A yeast two-hybrid screen to search for proteins that interact with the \*PDZ\* \*domains\* of ZO-1 identified connexin (Cx) 45. Cx45 interacts with the \*PDZ\* \*domains\* of ZO-1 and ZO-3, but not ZO-2, via a short C-terminal PDZ binding motif (SVWI). In \*transfected\* epithelial Madin-Darby canine kidney cells, Cx45 co-localizes with endogenous ZO-1 at or near tight junctions and co-precipitation experiments show that Cx45...  
MEDICAL DESCRIPTORS:

...domain; protein binding; protein motif; cell strain; epithelium cell; kidney cell; protein localization; tight junction; precipitation; gap

junction; signal transduction; cell communication; two hyb system;  
\*screening\*; dog; genetic transfection; carboxy terminal sequence; human;  
nonhuman; controlled study; animal cell; article; priority journal  
?ds

Set Items Description  
S1 5 (TRANSDUCISOME)  
S2 3 RD (unique items)  
S3 855 (PDZ (W) DOMAINS) OR (GLGF (W) REPEATS) OR (DHR (W) DOMAIN-S)  
S4 14 S3 AND (VECTOR OR PLASMID)  
S5 13 RD (unique items)  
S6 0 S5 AND (GPCR)  
S7 0 S5 AND (MODULATOR OR AGONIST OR ANTAGONIST)  
S8 40 S3 AND (SCREENING)  
S9 6 S8 AND (TRANSFORMED OR TRANSFECTED)  
S10 4 RD (unique items)  
?rd s8  
...completed examining records  
S11 21 RD S8 (unique items)  
?t s11/3,k/all

**11/3,K/1 (Item 1 from file: 155)**  
DIALOG(R)File 155:MEDLINE(R)

11292001 21329019 PMID: 11434923

**Rat protein tyrosine phosphatase eta physically interacts with the \*PDZ\*  
\*domains\* of syntenin.**

Iuliano R; Trapasso F; Sama I; Le Pera I; Martelli M L; Lembo F; Santoro M; Viglietto G; Chiariotti L; Fusco A

Dipartimento di Medicina Sperimentale i Clinica, Universita degli Studi di Catanzaro Magna Graecia, 88100 Catanzaro, Italy.

FEBS letters (Netherlands) Jun 29 2001, 500 (1-2) p41-4, ISSN 0014-5793 Journal Code: 0155157

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

**Rat protein tyrosine phosphatase eta physically interacts with the \*PDZ\*  
\*domains\* of syntenin.**

... r-PTPeta is able to suppress the malignant phenotype of rat thyroid tumorigenic cell lines. To identify r-PTPeta interacting proteins, a yeast two-hybrid \*screening\* was performed and an insert corresponding to the full-length syntenin cDNA was isolated. It encodes a protein containing two \*PDZ\* \*domains\* that mediates the binding of syntenin to proteins such as syndecan, proTGF-alpha, beta-ephrins and neurofascin. We show that r-PTPeta is able to...

... syntenin also in mammalian cells, and although syntenin is a tyrosine-phosphorylated protein it is not a substrate of r-PTPeta. The integrity of both \*PDZ\* \*domains\* of syntenin and the carboxy-terminal region of r-PTPeta are required for the interaction between syntenin and r-PTPeta.

**11/3,K/2 (Item 2 from file: 155)**  
DIALOG(R)File 155:MEDLINE(R)

10933208 20496108 PMID: 11043403

**The receptor tyrosine phosphatase-like protein ICA512 binds the \*PDZ\*  
\*domains\* of beta2-syntrophin and nNOS in pancreatic beta-cells.**

Ort T; Maksimova E; Dirkx R; Kachinsky A M; Berghs S; Froehner S C; Solimena M

Department of Internal Medicine, Yale University School of Medicine, New Haven, Connecticut 06510, USA.

European journal of cell biology (GERMANY) Sep 2000, (9) p621-30,  
ISSN 0171-9335 Journal Code: 7906240  
Contract/Grant No.: N533145; PHS  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

The receptor tyrosine phosphatase-like protein ICA512 binds the \*PDZ\*  
\*domains\* of beta2-syntrophin and nNOS in pancreatic beta-cells.

... with members of the dystrophin family including utrophin, as well as  
the signaling molecule neuronal nitric oxide synthase (nNOS). The cDNA  
isolated by two-hybrid \*screening\* corresponded to a novel beta2-syntrophin  
isoform with a predicted molecular mass of 28 kDa. This isoform included  
the PDZ domain, but not the C...

11/3,K/3 (Item 3 from file: 155)  
DIALOG(R) File 155: MEDLINE(R)

10613339 20148748 PMID: 10681527

Identification and characterization of a PDZ protein that interacts with  
activin type II receptors.

Shoji H; Tsuchida K; Kishi H; Yamakawa N; Matsuzaki T; Liu Z; Nakamura T;  
Sugino H

Institute for Enzyme Research, University of Tokushima, 3-18-15 Kuramoto,  
Tokushima 770-8503, Japan.

Journal of biological chemistry (UNITED STATES) Feb 25 2000, 275 (8)  
p5485-92, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... PDZ protein that interacts with the activin type IIA receptor  
(ActRIIA), which we named activin receptor-interacting protein 1 (ARIPI1).  
By using yeast two-hybrid \*screening\*, we isolated a cDNA clone of ARIPI1  
from a mouse brain cDNA library. We detected two forms of ARIPI1, ARIPI1-long  
and ARIPI1-short, which...

...be produced by alternative splicing. ARIPI1-long had one guanylate kinase  
domain in the NH(2)-terminal region, followed by two WW domains and five  
\*PDZ\* \*domains\* (PDZ1-5). ARIPI1-short had a deletion in the NH(2)-terminal  
region and lacked the guanylate kinase domain. Both forms interacted with  
ActRIIA through...

11/3,K/4 (Item 4 from file: 155)  
DIALOG(R) File 155: MEDLINE(R)

10602347 20125928 PMID: 10657980

The importance of being proline: the interaction of proline-rich motifs  
in signaling proteins with their cognate domains.

Kay B K; Williamson M P; Sudol M

Department of Pharmacology, University of Wisconsin-Madison, Madison,  
Wisconsin 53706-1532, USA. bkkay@facstaff.wisc.edu

FASEB journal : official publication of the Federation of American  
Societies for Experimental Biology (UNITED STATES) Feb 2000, 14 (2)  
p231-41, ISSN 0892-6638 Journal Code: 8804484

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

A common focus among molecular and cellular biologists is the  
identification of proteins that interact with each other. Yeast two-hybrid,

cDNA expression library screening\*, and coimmunoprecipitation experiments are powerful methods for identifying novel proteins that bind to one's favorite protein for the purpose of learning more regarding its...

... 1). Other examples include protein-interaction modules, such as Src homology (SH) 2 and 3 domains, phosphotyrosine binding domains (PTB), postsynaptic density/disc-large/ZO1 (\*PDZ\*) \*domains\*, WW domains, Eps15 homology (EH) domains, and 14-3-3 proteins that typically recognize linear regions of 3-9 amino acids. Each of these domains...

**11/3,K/5 (Item 5 from file: 155)**  
DIALOG(R) File 155: MEDLINE(R)

10553135 20076450 PMID: 10608844

**RA-GEF, a novel Rap1A guanine nucleotide exchange factor containing a Ras/Rap1A-associating domain, is conserved between nematode and humans.**

Liao Y; Kariya K; Hu C D; Shibatohge M; Goshima M; Okada T; Watari Y; Gao X; Jin T G; Yamawaki-Kataoka Y; Kataoka T

Department of Physiology II, Kobe University School of Medicine, 7-5-1 Kusunoki-cho, Chuo-ku, Kobe 650-0017, Japan.

Journal of biological chemistry (UNITED STATES) Dec 31 1999, 274 (53)  
p37815-20, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

A yeast two-hybrid \*screening\* for Ras-binding proteins in nematode *Caenorhabditis elegans* has identified a guanine nucleotide exchange factor (GEF) containing a Ras/Rap1A-associating (RA) domain, termed Ce...

... cAMP or cGMP. Although the REM and GEF domains are conserved with other GEFs acting on Ras family small GTP-binding proteins, the RA and \*PDZ\* \*domains\* are unseen in any of them. Hs-RA-GEF exhibited not only a GTP-dependent binding activity to Rap1A at its RA domain but also...

**11/3,K/6 (Item 6 from file: 155)**  
DIALOG(R) File 155: MEDLINE(R)

10162349 99150368 PMID: 10026200

**Interaction of NE-dlg/SAP102, a neuronal and endocrine tissue-specific membrane-associated guanylate kinase protein, with calmodulin and PSD-95/SAP90. A possible regulatory role in molecular clustering at synaptic sites.**

Masuko N; Makino K; Kuwahara H; Fukunaga K; Sudo T; Araki N; Yamamoto H; Yamada Y; Miyamoto E; Sayo H

Department of Tumor Genetics and Biology, Kumamoto University School of Medicine, 2-2-1, Honjo, Kumamoto 860-0811, Japan.

Journal of biological chemistry (UNITED STATES) Feb 26 1999, 274 (9)  
p5782-90, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... immobilized calmodulin with a Kd value of 44 nM. However, the binding of Ca<sup>2+</sup>/calmodulin to NE-dlg/SAP102 did not modulate the interaction between \*PDZ\* \*domains\* of NE-dlg/SAP102 and the C-terminal end of rat NR2B. We have also identified that the region near the calmodulin binding site of NE-dlg/SAP102 interacts with the GUK-like domain of PSD-95/SAP90 by two-hybrid \*screening\*. Pull down assay revealed that NE-dlg/SAP102 can interact with PSD-95/SAP90 in the presence of both Ca<sup>2+</sup> and calmodulin. These findings suggest...

11/3,K/7 (Item 7 from file: 155)  
DIALOG(R)File 155: MEDLINE(R)

10119000 99102074 PMID: 9882613

Association of protein-tyrosine phosphatase PTP-BAS with the transcription-factor-inhibitory protein IkappaBalph $\alpha$  through interaction between the PDZ1 domain and ankyrin repeats.

Maekawa K; Imagawa N; Naito A; Harada S; Yoshie O; Takagi S  
Shionogi Institute for Medical Science, 2-5-1 Mishima, Settsu-shi, Osaka  
566-0022, Japan. kazuhiko.maekawa@shionogi.co.jp  
Biochemical journal (ENGLAND) Jan 15 1999, 337 ( Pt 2) p179-84,  
ISSN 0264-6021 Journal Code: 2984726R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... homology region and five PDZ (PSD-95 Dlg ZO-1) [discs-large homology region ('DHR')/Gly-Leu-Gly-Phe ('GLGF')] domains. The second and fourth \*PDZ\* \*domains\* were reported to associate with Fas/CD95. By using the first PDZ domain as a bait in yeast two-hybrid \*screening\*, we have identified IkappaBalph $\alpha$  as a binding protein. IkappaBalph $\alpha$  associated with PDZ1 through the stretch of the N-terminal three ankyrin repeats. The association was...

11/3,K/8 (Item 8 from file: 155)  
DIALOG(R)File 155: MEDLINE(R)

09925545 98361985 PMID: 9694864

A novel multiple PDZ domain-containing molecule interacting with N-methyl-D-aspartate receptors and neuronal cell adhesion proteins.

Hirao K; Hata Y; Ide N; Takeuchi M; Irie M; Yao I; Deguchi M; Toyoda A; Sudhof T C; Takai Y

Takai Biotimer Project, ERATO, Japan Science and Technology Corporation, c/o JCR Pharmaceuticals Co. Ltd., 2-2-10 Murotani, Nishi-ku, Kobe 651-2241, Japan.

Journal of biological chemistry (UNITED STATES) Aug 14 1998, 273 (33) p21105-10, ISSN 0021-9258 Journal Code: 2985121R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... PSD-95/SAP90 belongs to a family of membrane-associated guanylate kinases and binds N-methyl-D-aspartate receptors, potassium channels, and neuregulins through the \*PDZ\* \*domains\* and GKAP/SAPAP/DAP through the guanylate kinase (GK) domain. We performed here a yeast two-hybrid \*screening\* for SAPAP-interacting molecules and identified a novel protein that has an inverse structure of membrane-associated guanylate kinases with an NH<sub>2</sub>-terminal GK-like domain followed by two WW and five \*PDZ\* \*domains\*. It binds SAPAP through the GK-like domain and NMDA receptors and neuregulins through the \*PDZ\* \*domains\*. We named this protein S-SCAM (synaptic scaffolding molecule) because S-SCAM may assemble receptors and cell adhesion proteins at synaptic junctions.

11/3,K/9 (Item 9 from file: 155)  
DIALOG(R)File 155: MEDLINE(R)

09776129 98198478 PMID: 9531559

ZO-3, a novel member of the MAGUK protein family found at the tight junction, interacts with ZO-1 and occludin.

Haskins J; Gu L; Wittchen E S; Hibbard J; Stevenson B R

Department of Cell Biology and Anatomy, University of Alberta, Edmonton,

Alberta T6G 2H7, Canada.

Journal of cell biology (UNITED STATES) Apr 6 1998, 141 (1) p199-208  
ISSN 0021-9525 Journal Code: 0375356  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

... Darby canine kidney (MDCK) cells and subjected to partial endopeptidase digestion and amino acid sequencing. A resulting 19-amino acid sequence provided the basis for \*screening\* canine cDNA libraries. Five overlapping clones contained a single open reading frame of 2,694 bp coding for a protein of 898 amino acids with a predicted molecular mass of 98,414 daltons. Sequence analysis showed that this protein contains three PSD-95/SAP90, discs-large, ZO-1 (\*PDZ\*) \*domains\*, a src homology (SH3) domain, and a region similar to guanylate kinase, making it homologous to ZO-1, ZO-2, the discs large tumor suppressor...

...proteins. Like ZO-1 and ZO-2, the novel protein contains a COOH-terminal acidic domain and a basic region between the first and second \*PDZ\* \*domains\*. Unlike ZO-1 and ZO-2, this protein displays a proline-rich region between PDZ2 and PDZ3 and apparently contains no alternatively spliced domain. MDCK...

11/3,K/10 (Item 10 from file: 155)  
DIALOG(R)File 155: MEDLINE(R)

09442263 97338076 PMID: 9192623

**Binding of human virus oncoproteins to hDlg/SAP97, a mammalian homolog of the Drosophila discs large tumor suppressor protein.**

Lee S S; Weiss R S; Javier R T  
Division of Molecular Virology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA.

Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Jun 24 1997, 94 (13) p6670-5, ISSN 0027-8424  
Journal Code: 7505876

Contract/Grant No.: CA58541; CA; NCI  
Document type: Journal Article  
Languages: ENGLISH  
Main Citation Owner: NLM  
Record type: Completed

The 9ORF1 gene encodes an adenovirus E4 region oncoprotein that requires a C-terminal region for transforming activity. \*Screening\* a lambda gt11 cDNA expression library with a 9ORF1 protein probe yielded a novel cellular PDZ domain-containing protein, 9BP-1, which binds to wild-type, but not a transformation-defective, C-terminal, mutant 9ORF1 protein. The fact that \*PDZ\* \*domains\* complex with specific sequences at the free C-terminal end of some proteins led to the recognition that the 9ORF1 C-terminal region contained such a consensus-binding motif. This discovery prompted investigations into whether the 9ORF1 protein associates with additional cellular proteins having \*PDZ\* \*domains\*. It was found that the 9ORF1 protein interacts directly, in vitro and in vivo, with the PDZ domain-containing protein hDlg/SAP97 (DLG), which is...

11/3,K/11 (Item 1 from file: 5)  
DIALOG(R)File 5: Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13586050 BIOSIS NO.: 200200214871

**Densin-180 interacts with delta-catenin/neural plakophilin-related armadillo repeat protein at synapses.**

AUTHOR: Izawa Ichiro; Nishizawa Miwako; Ohtakara Kazuhiro; Inagaki Masaki  
(a)

AUTHOR ADDRESS: (a) Division of Biochemistry, Aichi Cancer Center Research Institute, 1-1 Kanokoden, Chikusaku, Nagoya, Aichi, 464-8681\*\*Japan  
E-Mail: minagaki@aichi-cc.jp

JOURNAL: Journal of Biological Chemistry 277 (7):p5345-5350 February 15, 2002

MEDIUM: print

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: forebrain, is the founding member of a newly described family of proteins termed the LAP (leucine-rich repeats and PSD-95/Dlg-A/ZO-1 (\*PDZ\* \*domains\*) family that plays essential roles in establishment of cell polarity. To identify Densin-180-binding proteins, we screened a yeast two-hybrid library using the...

...METHODS & EQUIPMENT: yeast two-hybrid library \*screening\*--...

...Molecular Biology Techniques and Chemical Characterization, \*screening\* method

11/3,K/12 (Item 2 from file: 5)  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13489827 BIOSIS NO.: 200200118648

Multi-PDZ domain protein 1 (MUPP1) is concentrated at tight junctions through its possible interaction with claudin-1 and junctional adhesion molecule.

AUTHOR: Hamazaki Yoko; Itoh Masahiko; Sasaki Hiroyuki; Furuse Mikio; Tsukita Shoichiro(a)

AUTHOR ADDRESS: (a)Department of Cell Biology, Faculty of Medicine, Kyoto University, Sakyo-ku, Kyoto, 606-8501\*\*Japan E-Mail: htsukita@mfour.med.kyoto-u.ac.jp

JOURNAL: Journal of Biological Chemistry 277 (1):p455-461 January 4, 2002

MEDIUM: print

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: constitute tight junction (TJ) strands, suggesting that TJ strands strongly attract PDZ-containing proteins. Indeed, ZO-1, -2, and -3, each of which contains three \*PDZ\* \*domains\*, were shown to directly bind to claudins. Using the yeast two-hybrid system, we identified ZO-1 and MUPP1 (multi-PDZ domain protein 1) as binding partners for the COOH terminus of claudin-1. MUPP1 has been identified as a protein that contains 13 \*PDZ\* \*domains\*, but it has not been well characterized. In vitro binding assays with recombinant MUPP1 confirmed the interaction between MUPP1 and claudin-1 and identified PDZ10...

...METHODS & EQUIPMENT: yeast two-hybrid \*screening\*--...

...Molecular Biology Techniques and Chemical Characterization, \*screening\* method

11/3,K/13 (Item 3 from file: 5)  
DIALOG(R) File 5:Biosis Previews(R)  
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13290613 BIOSIS NO.: 200100497762

Interaction of the carboxyterminus of a C. elegans 5-HT2-like receptor with PDZ domain 8 of C52A11.4.

AUTHOR: Xiao H(a); Huang X(a); Smith K(a); Plenefisch J(a); Huang X P(a); Komuniecki R W(a)

AUTHOR ADDRESS: (a) Biology, University of Toledo, Toledo, \*USA  
JOURNAL: Society for Neuroscience Abstracts 27 (1):p693 2001  
MEDIUM: print  
CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience  
San Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

...ABSTRACT: specific sub-cellular localization of the individual isoforms. Therefore, using the C-terminus of the *C. elegans* receptor as a bait in yeast-two hybrid \*screening\*, we have identified a *C. elegans* protein (C52A11.4) which contains 10 \*PDZ\* \*domains\* and exhibits significant identify to a multiple PDZ domain containing binding partner identified for the human receptor (FEBS Letters, 1998, 424:63-68). Analysis of the individual \*PDZ\* \*domains\* suggests that only PDZ domain 8 binds to this TFL motif. Preliminary analysis using a GFP fusion construct with the putative C52A11.4 promoter suggests...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...\*PDZ\* \*domains\*, detection, expression, localization

11/3,K/14 (Item 4 from file: 5)  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13260246 BIOSIS NO.: 200100467395

**Schwannomin isoform-1 interacts with syntenin via \*PDZ\* \*domains\*.**  
AUTHOR: Jannatipour Mehrdad; Dion Patrick; Khan Saad; Jindal Hitesh; Fan Xueping; Laganiere Janet; Chishti Athar H; Rouleau Guy A(a)  
AUTHOR ADDRESS: (a)Center for Research in Neuroscience, McGill University and Montreal General Hospital, 1650 Cedar Avenue, Montreal, PQ, H3G 1A4: mi32@musica.mcgill.ca\*\*Canada

JOURNAL: Journal of Biological Chemistry 276 (35):p33093-33100 August 31, 2001

MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

**Schwannomin isoform-1 interacts with syntenin via \*PDZ\* \*domains\*.**

...ABSTRACT: couples transmembrane proteoglycans to cytoskeletal components and is involved in intracellular vesicle transport. The C terminus 25 amino acids of sch-1 and the two \*PDZ\* \*domains\* of syntenin mediate their binding, and mutations introduced within the VAFFEEL region of sch-1 defined a sequence crucial for syntenin recognition. We have showed ...

DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ...\*PDZ\* \*domains\*, adapter protein  
METHODS & EQUIPMENT: yeast two-hybrid \*screening\*--

11/3,K/15 (Item 5 from file: 5)  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

13024527 BIOSIS NO.: 200100231676

**The neuronal adaptor protein X11alpha interacts with the copper chaperone for SOD1 and regulates SOD1 activity.**  
AUTHOR: McLoughlin Declan M; Standen Claire L; Lau Kwok-Fai; Ackerley Steven; Bartnikas Thomas P; Gitlin Jonathan D; Miller Christopher C J(a)

AUTHOR ADDRESS: (a)Dept. Neuroscience, Institute of Psychiatry, De  
Crespiigny Park, Denmark Hill, London, SE5 8AF: chris.miller@iop.kcl.ac.uk  
\*\*UK  
JOURNAL: Journal of Biological Chemistry 276 (12):p9303-9307 March 23,  
2001  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

...ABSTRACT: participates in the formation of multiprotein complexes and intracellular trafficking. It contains a series of discrete protein-protein interaction domains including two contiguous C-terminal \*PDZ\* \*domains\*. We used the yeast two-hybrid system to screen for proteins that interact with the \*PDZ\* \*domains\* of human X11alpha, and we isolated a clone encoding domains II and III of the copper chaperone for Cu,Zn-superoxide dismutase-1 (CCS). The...  
...METHODS & EQUIPMENT: \*screening\* method

11/3,K/16 (Item 6 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

12913782 BIOSIS NO.: 200100120931  
**Clustering of stargazin by PSD-95.**  
AUTHOR: Chetkovich D M(a); Chen L; Bunn R C; Sweeney N T; Aguilera-Moreno A ; Nicoll R A; Bredt D S  
AUTHOR ADDRESS: (a)UCSF, San Francisco, CA\*\*USA  
JOURNAL: Society for Neuroscience Abstracts 26 (1-2):pAbstract No-7175  
2000  
MEDIUM: print  
CONFERENCE/MEETING: 30th Annual Meeting of the Society of Neuroscience New Orleans, LA, USA November 04-09, 2000  
SPONSOR: Society for Neuroscience  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

...ABSTRACT: is a 36-kD protein subunit of the voltage gated calcium channel. The C-terminus of stargazin consists of the PDZ binding consensus sequence, -TPV\*. \*Screening\* a rat brain yeast 2-hybrid library with the C-terminal 120 amino acids of stargazin identified 18 positive clones, encoding the \*PDZ\* \*domains\* of PSD-95/93 and SAP97/102. When cotransfected with PSD-95 and PSD-93, robust surface clustering of stargazin was noted. Additionally, stargazin co...

11/3,K/17 (Item 7 from file: 5)  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2002 BIOSIS. All rts. reserv.

11440725 BIOSIS NO.: 199800222057  
**The mammalian numb phosphotyrosine-binding domain. Characterization of binding specificity and identification of a novel PDZ domain-containing Numb binding protein, LNX.**  
AUTHOR: Dho Sascha E; Jacob Sara; Wolting Cheryl D; French Michelle B; Rohrschneider Larry R; McGlade C Jane(a)  
AUTHOR ADDRESS: (a)Amgen Inst., 620 University Ave., Suite 706, Toronto, ON M5G 2C1\*\*Canada  
JOURNAL: Journal of Biological Chemistry 273 (15):p9179-9187 April 10, 1998  
ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

...ABSTRACT: with predicted molecular masses of 80 kDa (LNX) and 70 kDa (LNX-b). LNX and LNX-b contain unique amino-terminal sequences and share four \*PDZ\* \*domains\*. The unique amino-terminal region of LNX includes a RING finger domain. The Numb PTB domain binding region of LNX was mapped to the sequence...

...METHODS & EQUIPMENT: cDNA library \*screening\* {complementary DNA library \*screening\*}---

...yeast two-hybrid \*screening\*--

**11/3,K/18 (Item 8 from file: 5)**

DIALOG(R)File 5:Biosis Previews(R)

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10877446 BIOSIS NO.: 199799498591

**Partner selection by \*PDZ\* \*domains\*.**

AUTHOR: Kornau Hans-Christian(a); Seeburg Peter H

AUTHOR ADDRESS: (a)Dep. Mol. Neurobiol., Max-Planck Inst. Med. Res., Jahnstrasse 29, D-69120 Heidelberg\*\*Germany

JOURNAL: Nature Biotechnology 15 (4):p319 1997

ISSN: 1087-0156

RECORD TYPE: Citation

LANGUAGE: English

**Partner selection by \*PDZ\* \*domains\*.**

MISCELLANEOUS TERMS: ...PEPTIDE LIBRARY \*SCREENING\*;

**11/3,K/19 (Item 1 from file: 73)**

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

11302222 EMBASE No: 2001316415

**Connexin45 directly binds to ZO-1 and localizes to the tight junction region in epithelial MDCK cells**

Kausalya P.J.; Reichert M.; Hunziker W.

W. Hunziker, Inst. of Molecular and Cell Biology, Epithelial Cell Biology Laboratory, 30 Medical Drive, Singapore 117609 Singapore

AUTHOR EMAIL: hunziker@imcb.nus.edu.sg

FEBS Letters ( FEBS LETT. ) (Netherlands) 07 SEP 2001, 505/1 (92-96)

CODEN: FEBLA ISSN: 0014-5793

PUBLISHER ITEM IDENTIFIER: S0014579301027867

DOCUMENT TYPE: Journal ; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 23

...molecule to the actin cytoskeleton. The interaction between ZO-1 and claudin or junctional adhesion molecule occurs via the amino-terminal PSD95/Dlg/ZO-1 (\*PDZ\*) \*domains\* in ZO-1. A yeast two-hybrid screen to search for proteins that interact with the \*PDZ\* \*domains\* of ZO-1 identified connexin (Cx) 45. Cx45 interacts with the \*PDZ\* \*domains\* of ZO-1 and ZO-3, but not ZO-2, via a short C-terminal PDZ binding motif (SVWI). In transfected epithelial Madin-Darby canine...

MEDICAL DESCRIPTORS:

...domain; protein binding; protein motif; cell strain; epithelium cell; kidney cell; protein localization; tight junction; precipitation; gap junction; signal transduction; cell communication; two hybrid system; \*screening\*; dog; genetic transfection; carboxy terminal sequence; human; nonhuman; controlled study; animal cell; article; priority journal

11/3,K/20 (Item 2 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

07586454 EMBASE No: 1999056427

**Mutagenesis and selection of \*PDZ\* \*domains\* that bind new protein targets**

Schneider S.; Buchert M.; Georgiev O.; Catimel B.; Halford M.; Stacker S.A.; Baechi T.; Moelling K.; Hovens C.M.

K. Moelling, Institut fur Medizinische Virologie, Elektronenmikrosk. Zentrallabor, Universitat Zurich, Gloriastr. 30/32, CH-8028 Zurich Switzerland

AUTHOR EMAIL: moelling@immv.unizh.ch

Nature Biotechnology ( NAT. BIOTECHNOL. ) (United States) 1999, 17/2 (170-175)

CODEN: NABIF ISSN: 1087-0156

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 36

**Mutagenesis and selection of \*PDZ\* \*domains\* that bind new protein targets**

\*PDZ\* \*domains\* are a recently characterized protein-recognition module. In most cases, \*PDZ\* \*domains\* bind to the C-terminal end of target proteins and are thought thereby to link these target proteins into functional signaling networks. We report the isolation of artificial \*PDZ\* \*domains\* selected via a mutagenesis screen in vivo, each recognizing a different C-terminal peptide. We demonstrate that the \*PDZ\* \*domains\* isolated can bind selectively to their target peptides in vitro and in vivo. Two of the target peptides chosen are the C-terminal ends of two cellular transmembrane proteins with which no known \*PDZ\* \*domains\* have been reported to interact. By targeting these artificial \*PDZ\* \*domains\* to the nucleus, interacting target peptides were efficiently transported to the same subcellular localization. One of the isolated \*PDZ\* \*domains\* was tested and shown to be efficiently directed to the plasma membrane when cotransfected with the full-length transmembrane protein in mammalian cells. Thus, artificial \*PDZ\* \*domains\* can be engineered and used to target intracellular proteins to different subcellular compartments.

**MEDICAL DESCRIPTORS:**

protein modification; \*screening\*; protein protein interaction; cellular distribution; human; human cell; article; priority journal

11/3,K/21 (Item 3 from file: 73)

DIALOG(R)File 73:EMBASE

(c) 2002 Elsevier Science B.V. All rts. reserv.

06916132 EMBASE No: 1997200577

**Binding of human virus oncoproteins to hD1g/SAP97, a mammalian homolog of the Drosophila discs large tumor suppressor protein**

Lee S.S.; Weiss R.S.; Javier R.T.

R.T. Javier, Division of Molecular Virology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030 United States

AUTHOR EMAIL: rjavier@bcm.tmc.edu

Proceedings of the National Academy of Sciences of the United States of America ( PROC. NATL. ACAD. SCI. U. S. A. ) (United States) 1997, 94/13 (6670-6675)

CODEN: PNASA ISSN: 0027-8424

DOCUMENT TYPE: Journal; Article

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 34

The 9ORF1 gene encodes an adenovirus E4 region oncoprotein that requires a C-terminal region for transforming activity. \*Screening\* a lambda gt11 cDNA expression library with a 9ORF1 protein probe yielded a novel cellular

09/462517

File 5:Biosis Previews(R) 1969-2003/May W4  
(c) 2003 BIOSIS  
\*File 5: Alert feature enhanced for multiple files, duplicates removal, customized scheduling. See HELP ALERT.

Set	Items	Description
S1	794	PDZ() DOMAIN
S2	69058	SIGNAL() TRANSDUCTION
S3	101	S1 AND S2
S4	38	KINASE AND S3
S5	10	PHOSPHATASE AND S3
S6	4	(G() PROTEIN() COUPLED() RECEPTOR) AND S3
S7	1	(TYROSINE() KINASE() RECEPTOR) AND S3
S8	0	(TYROSINE() PHOSPHATASE() RECEPTOR) AND S3
S9	4	(ION() CHANNEL) AND S3
S10	15	(G() PROTEIN) AND S3
S11	9	PHOSPHOLIPASE AND S3
S12	0	(CALCIUM() BINDING() PROTEIN) AND S3
S13	0	(TYROSINE() PHOSPHATASE() RECEPTOR) AND S1
S14	0	(CALCIUM() BINDING() PROTEIN) AND S1
S15	35	AU='ZUKER CHARLES' OR AU='ZUKER CHARLES S'
S16	1	S1 AND S15
S17	5	AU='MENDLEIN JOHN' OR AU='MENDLEIN JOHN D'
S18	0	S1 AND S17
S19	8	AU='TSUNODA SUSAN'
S20	1	S1 AND S19
S21	6	AU='SUN YUMEI'
S22	1	S1 AND S21
S23	4	TRANSDUCISOME

? t s4/3/1-38

4/3/1  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

14136638 BIOSIS NO.: 200300130667  
NHERF-1 uniquely transduces the cAMP signals that inhibit sodium-hydrogen exchange in mouse renal apical membranes.  
AUTHOR: Weinman Edward J(a); Steplock Deborah; Shenolikar Shirish  
AUTHOR ADDRESS: (a)Department of Medicine, Division Nephrology, University of Maryland School of Medicine, 22 South Greene Street, Room N3W143, UHM, Baltimore, MD, 21201, USA\*\*USA E-Mail: eweinman@medicine.umaryland.edu  
JOURNAL: FEBS Letters 536 (1-3):p141-144 11 February 2003 2003  
MEDIUM: print  
ISSN: 0014-5793  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/2  
DIALOG(R) File 5:Biosis Previews(R)  
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14074076 BIOSIS NO.: 200300068105  
Protein \*\*\*kinase\*\*\* C (PKC) isoforms in Drosophila.  
AUTHOR: Shieh Bih-Hwa(a); Parker Lisan; Popescu Daniela  
AUTHOR ADDRESS: (a)Department of Pharmacology and Center for Molecular Neuroscience, Vanderbilt University, 402 Robinson Research Building, Nashville, TN, 37232, USA\*\*USA E-Mail: bih-hwa.shieh@vanderbilt.edu  
JOURNAL: Journal of Biochemistry (Tokyo) 132 (4):p523-527 Oct. 2002 2002  
MEDIUM: print  
ISSN: 0021-924X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/3  
DIALOG(R) File 5:Biosis Previews(R)  
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14012156 BIOSIS NO.: 200300006185  
The Na<sup>+</sup>/H<sup>+</sup> exchanger regulatory factor 2 mediates phosphorylation of serum- and glucocorticoid-induced protein kinase 1 by 3-phosphoinositide-dependent protein kinase 1.  
AUTHOR: Chun Jaesun; Kwon Taegun; Lee Eunjung; Suh Pann-Ghill; Choi Eui-Ju; Kang Sang Sun(a)  
AUTHOR ADDRESS: (a)School of Science Education, Chungbuk National University, Gaeshin-dong, Heungdok-gu, Chongju, 361-763, South Korea\*\* South Korea E-Mail: jin95324@cbucc.chungbuk.ac.kr  
JOURNAL: Biochemical and Biophysical Research Communications 298 (2):p 207-215 October 25 2002  
MEDIUM: print  
ISSN: 0006-291X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/4  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

14006239 BIOSIS NO.: 200300000268  
Cytoplasmic interactions of syndecan-4 orchestrate adhesion receptor and growth factor receptor signalling.  
AUTHOR: Bass Mark D; Humphries Martin J(a)  
AUTHOR ADDRESS: (a)Wellcome Trust Centre for Cell-Matrix Research, School of Biological Sciences, University of Manchester, Manchester, M13 9PT, UK \*\*UK E-Mail: martin.Humphries@man.ac.uk  
JOURNAL: Biochemical Journal 368 (1):p1-15 15 November 2002 2002  
MEDIUM: print  
ISSN: 0264-6021  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/5  
DIALOG(R) File 5:Biosis Previews(R)  
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13970815 BIOSIS NO.: 200200599636  
The down regulated in adenoma (dra) gene product binds to the second PDZ domain of the NHE3 A regulatory protein (E3KARP), potentially linking intestinal Cl<sup>-</sup>/HCO<sub>3</sub><sup>-</sup> exchange to Na<sup>+</sup>/H<sup>+</sup> exchange.  
AUTHOR: Lamprecht Georg(a); Heil Andreas; Baisch Susannah; Lin-Wu Elena; Yun C Chris; Kalbacher Hubert; Gregor Michael; Seidler Ursula  
AUTHOR ADDRESS: (a)1st Medical Department, University of Tuebingen, 72076, Tuebingen\*\*Germany E-Mail: hans-georg.lamprecht@uni-tuebingen.de  
JOURNAL: Biochemistry 41 (41):p12336-12342 October 15, 2002  
MEDIUM: print  
ISSN: 0006-2960  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/6  
DIALOG(R) File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

13824201 BIOSIS NO.: 200200453022  
Protocadherin LKC, a new candidate for a tumor suppressor of colon and liver cancers, its association with contact inhibition of cell proliferation.  
AUTHOR: Okazaki Noriko; Takahashi Naomi; Kojima Shin-ichi; Masuho Yasuhiko;

Koga Hisashi(a)  
AUTHOR ADDRESS: (a)Kazusa DNA Research Institute, 1532-3 Yana,  
Kisarazu-city, Chiba, 292-0812\*\*Japan E-Mail: hkoga@kazusa.or.jp  
JOURNAL: Carcinogenesis (Oxford) 23 (7):p1139-1148 July, 2002  
MEDIUM: print  
ISSN: 0143-3334  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/7  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.  
  
13637772 BIOSIS NO.: 200200266593  
GIPC participates in G protein signaling downstream of insulin-like growth  
factor 1 receptor.  
AUTHOR: Booth Ronald A; Cummings Cathy; Tiberi Mario; Liu X Johnne(a)  
AUTHOR ADDRESS: (a)Ottawa Health Research Institute, Ottawa Hospital,  
Ottawa, ON, K1Y 4E9\*\*Canada E-Mail: jliu@ohri.ca  
JOURNAL: Journal of Biological Chemistry 277 (8):p6719-6725 February 22,  
2002  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/8  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.  
  
13551843 BIOSIS NO.: 200200180664  
Essential role for NHERF in cAMP-mediated inhibition of the Na<sup>+</sup>-HCO<sub>3</sub><sup>-</sup>  
co-transporter in BSC-1 cells.  
AUTHOR: Weinman Edward J(a); Evangelista Christine M; Steplock Deborah; Liu  
Min-Zhi; Shenolikar Shirish; Bernardo Angelito  
AUTHOR ADDRESS: (a)Dept. of Medicine, School of Medicine, University of  
Maryland, 22 S. Greene St., Rm. N3W143, Baltimore, MD, 21201\*\*USA E-Mail:  
e.weinman@medicine.umaryland.edu  
JOURNAL: Journal of Biological Chemistry 276 (45):p42339-42346 November 9,  
2001  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/9  
DIALOG(R)File 5:Biosis Previews(R)  
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13540547 BIOSIS NO.: 200200169368  
beta1-Adrenergic receptor association with the synaptic scaffolding protein  
membrane-associated guanylate \*\*\*kinase\*\*\* inverted-2 (MAGI-2).  
Differential regulation of receptor internalization by MAGI-2 and PSD-95.  
AUTHOR: Xu Jianguo; Paquet Maryse; Lau Anthony G; Wood Jonathan D; Ross  
Christopher A; Hall Randy A(a)  
AUTHOR ADDRESS: (a)Dept. of Pharmacology, Emory University School of  
Medicine, 1510 Clifton Rd., 5113 Rollins Research Center, Atlanta, GA,  
30322\*\*USA E-Mail: rhall@pharm.emory.edu  
JOURNAL: Journal of Biological Chemistry 276 (44):p41310-41317 November 2,  
2001  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/10  
DIALOG(R)File 5:Biosis Previews(R)  
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13373965 BIOSIS NO.: 200200002786  
Beta-1-adrenergic receptor association with the synaptic scaffolding protein MAGI-2.  
AUTHOR: Paquet M(a); Xu J(a); Lau A G(a); Hall R A(a)  
AUTHOR ADDRESS: (a)Pharmacology, Emory University School of Medicine,  
Atlanta, GA\*\*USA  
JOURNAL: Society for Neuroscience Abstracts 27 (2):p2142 2001  
MEDIUM: print  
CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience  
San Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/11  
DIALOG(R)File 5:Biosis Previews(R)  
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13340748 BIOSIS NO.: 200100547897  
Neuroligin 1 interacts with a neuronal member of the band 4.1 family.  
AUTHOR: Neeb A(a); Dresbach T; Varoqueaux F(a); Ohara O; Gundelfinger E D;  
Brose N(a)  
AUTHOR ADDRESS: (a)Molecular Neurobiology, Max-Planck-Institute for  
Experimental Medicine, Goettingen\*\*Germany  
JOURNAL: Society for Neuroscience Abstracts 27 (2):p1547 2001  
MEDIUM: print  
CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience  
San Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/12  
DIALOG(R)File 5:Biosis Previews(R)  
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13306876 BIOSIS NO.: 200100514025  
Expanding the role of NHERF, a %%%PDZ%%%-%%%domain%%% containing protein adapter, to growth regulation.  
AUTHOR: Voltz James W; Weinman Edward J; Shenolikar Shirish(a)  
AUTHOR ADDRESS: (a)Department of Pharmacology and Cancer Biology, Duke  
University Medical Center, Durham, NC, 27710: sheno001@mc.duke.edu\*\*USA  
JOURNAL: Oncogene 20 (44):p6309-6314 1 October, 2001  
MEDIUM: print  
ISSN: 0950-9232  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/13  
DIALOG(R)File 5:Biosis Previews(R)  
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13232521 BIOSIS NO.: 200100439670  
Inhibition of neurite extension by overexpression of individual domains of LIM %%%kinase%%% 1.  
AUTHOR: Birkenfeld Joerg; Betz Heinrich; Roth Dagmar(a)  
AUTHOR ADDRESS: (a)Department of Neurochemistry, Max-Planck-Institute for  
Brain Research, Deutscheschordenstr. 46, 60528, Frankfurt:  
neurochemie@mpih-frankfurt.mpg.de\*\*Germany

JOURNAL: Journal of Neurochemistry 78 (4):p924-927 August, 2001  
MEDIUM: print  
ISSN: 0022-3042  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/14  
DIALOG(R)File 5:Biosis Previews(R)  
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13183816 BIOSIS NO.: 200100390965  
The CASK/Lin-2 Drosophila homologue, Camguk, could play a role in  
epithelial patterning and in neuronal targeting.  
AUTHOR: Lopes Carmela; Gassanova Svetlana; Delabar Jean-Maurice; Rachidi  
Mohammed(a)  
AUTHOR ADDRESS: (a)Faculte de Medecine Necker, UMR 8602 CNRS, 156 Rue de  
Vaugirard, 75015, Paris: mrachidi@pasteur.fr\*\*France  
JOURNAL: Biochemical and Biophysical Research Communications 284 (4):p  
1004-1010 June 22, 2001  
MEDIUM: print  
ISSN: 0006-291X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/15  
DIALOG(R)File 5:Biosis Previews(R)  
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13177570 BIOSIS NO.: 200100384719  
Targeting mutants of PTEN reveal distinct subsets of tumour suppressor  
functions.  
AUTHOR: Leslie Nick R(a); Bennett Deborah; Gray Alex; Pass Ian; Hoang-Xuan  
Khe; Downes C Peter  
AUTHOR ADDRESS: (a)Division of Signal Transduction Therapy, Department of  
Biochemistry, University of Dundee, Dundee, DD1 5EH:  
n.r.leslie@dundee.ac.uk\*\*UK  
JOURNAL: Biochemical Journal 357 (2):p427-435 15 July, 2001  
MEDIUM: print  
ISSN: 0264-6021  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/16  
DIALOG(R)File 5:Biosis Previews(R)  
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13059232 BIOSIS NO.: 200100266381  
CARD11 and CARD14 are novel caspase recruitment domain  
(CARD)/membrane-associated guanylate kinase (MAGUK) family members  
that interact with BCL10 and activate NF-kappaB.  
AUTHOR: Bertin John; Wang Lin; Guo Yin; Jacobson Michael D; Poyet Jean-Luc;  
Srinivasula Srinivasa M; Merriam Sarah; DiStefano Peter S; Alnemri Emad S  
(a)  
AUTHOR ADDRESS: (a)Kimmel Cancer Inst., Thomas Jefferson Univ., 233 S. 10th  
St., Bluemle Life Sciences Bldg., Rm. 904, Philadelphia, PA, 19107:  
bertin@mpi.com, Alnemri@lac.jci.tju.edu\*\*USA  
JOURNAL: Journal of Biological Chemistry 276 (15):p11877-11882 April 13,  
2001  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract

LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/17  
DIALOG(R)File 5:Biosis Previews(R)  
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12991022 BIOSIS NO.: 200100198171  
Mitogen-stimulated TIS21 protein interacts with a protein-%%%kinase%%%  
-Calpha-binding protein rPICK1.  
AUTHOR: Lin Wey-Jing(a); Chang Yaun-Fu; Wang Wei-Li; Huang Chi-Ying F  
AUTHOR ADDRESS: (a)Institute of Biopharmaceutical Science, National  
Yang-Ming University, Taipei, 112: wjlin@ym.edu.tw\*\*Taiwan  
JOURNAL: Biochemical Journal 354 (3):p635-643 15 March, 2001  
MEDIUM: print  
ISSN: 0264-6021  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/18  
DIALOG(R)File 5:Biosis Previews(R)  
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12873666 BIOSIS NO.: 200100080815  
Interaction of diacylglycerol %%%kinase%%%-zeta with the %%%PDZ%%%  
%%%domain%%% of gammal-syntrophin.  
AUTHOR: Hogan A B(a); Chabot J; Gee S H  
AUTHOR ADDRESS: (a)University of Ottawa, Ottawa, ON\*\*Canada  
JOURNAL: Society for Neuroscience Abstracts 26 (1-2):pAbstract No-2318  
2000  
MEDIUM: print  
CONFERENCE/MEETING: 30th Annual Meeting of the Society of Neuroscience New  
Orleans, LA, USA November 04-09, 2000  
SPONSOR: Society for Neuroscience  
ISSN: 0190-5295  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/19  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

12622269 BIOSIS NO.: 200000375771  
Interaction of the tumor suppressor PTEN/MMAC with a %%%PDZ%%% %%%domain%%%  
of MAGI3, a novel membrane-associated guanylate %%%kinase%%%.  
AUTHOR: Wu Yan; Dowbenko Donald; Spencer Susan; Laura Richard; Lee James;  
Gu Qimin; Lasky Laurence A(a)  
AUTHOR ADDRESS: (a)Dept. of Molecular Oncology, Genentech, Inc., 460 Pt.  
San Bruno Blvd., South San Francisco, CA, 94080\*\*USA  
JOURNAL: Journal of Biological Chemistry 275 (28):p21477-21485 July 14,  
2000  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/20  
DIALOG(R)File 5:Biosis Previews(R)  
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12474152 BIOSIS NO.: 200000227654

Biochemical and functional interactions between the PTEN tumor suppressor and a membrane-localized multi-\*\*\*PDZ\*\*\* \*\*\*domain\*\*\* containing scaffold protein MAGI-2.  
AUTHOR: Hepner Karin(a); Wu Xinyi; Castelino-Prabhu Shobha; Wood Jonathan; Ross Christopher; Whang Young; Sawyers Charles L  
AUTHOR ADDRESS: (a)Johns Hopkins Univ Sch of Medicine, Baltimore, MD\*\*USA  
JOURNAL: Proceedings of the American Association for Cancer Research Annual Meeting (41):p227 March, 2000  
CONFERENCE/MEETING: 91st Annual Meeting of the American Association for Cancer Research. San Francisco, California, USA April 01-05, 2000  
ISSN: 0197-016X  
RECORD TYPE: Citation  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/21  
DIALOG(R)File 5:Biosis Previews(R)  
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12327854 BIOSIS NO.: 200000081356  
The organization of INAD-signaling complexes by a multivalent \*\*\*PDZ\*\*\* \*\*\*domain\*\*\* protein in Drosophila photoreceptor cells ensures sensitivity and speed of signaling.  
AUTHOR: Tsunoda S(a); Zuker C S(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute and Departments of Biology and Neurosciences, University of California, San Diego, La Jolla, Ca\*\*USA  
JOURNAL: Cell Calcium 26 (5):p165-171 Nov. , 1999  
ISSN: 0143-4160  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/22  
DIALOG(R)File 5:Biosis Previews(R)  
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12300851 BIOSIS NO.: 200000058718  
Yes-associated protein 65 localizes p62c-Yes to the apical compartment of airway epithelia by association with EBP50.  
AUTHOR: Mohler Peter J; Kreda Silvia M; Boucher Richard C; Sudol Marius; Stutts M Jackson; Milgram Sharon L(a)  
AUTHOR ADDRESS: (a)Cell and Molecular Physiology, University of North Carolina at Chapel Hill, Chapel Hill, NC\*\*USA  
JOURNAL: Journal of Cell Biology 147 (4):p879-890 Nov. 15, 1999  
ISSN: 0021-9525  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/23  
DIALOG(R)File 5:Biosis Previews(R)  
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12202185 BIOSIS NO.: 199900497034  
A \*\*\*kinase\*\*\*-regulated \*\*\*PDZ\*\*\*-\*\*\*domain\*\*\* interaction controls endocytic sorting of the beta2-adrenergic receptor.  
AUTHOR: Cao Tracy T; Deacon Heather W; Reczek David; Bretscher Anthony; von Zastrow Mark(a)  
AUTHOR ADDRESS: (a)Program in Cell Biology, Cellular and Molecular Pharmacology and Psychiatry, University of California, San Francisco, San Francisco, CA, 94143\*\*USA  
JOURNAL: Nature (London) 401 (6750):p286-290 Sept. 16, 1999  
ISSN: 0028-0836  
DOCUMENT TYPE: Letter; Article  
RECORD TYPE: Abstract

LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/24  
DIALOG(R)File 5:Biosis Previews(R)  
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12136600 BIOSIS NO.: 199900431449  
G protein-coupled receptor kinase 6A phosphorylates the Na+/H+ exchanger regulatory factor via a PDZ-domain-mediated interaction.  
AUTHOR: Hall Randy A; Spurney Robert F; Premont Richard T; Rahman Nadeem; Blitzer Jeremy T; Pitcher Julie A; Lefkowitz Robert J(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute, Duke University Medical Center, Durham, NC, 27710\*\*USA  
JOURNAL: Journal of Biological Chemistry 274 (34):p24328-24334 Aug. 20, 1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/25  
DIALOG(R)File 5:Biosis Previews(R)  
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12034200 BIOSIS NO.: 199900314719  
Estrogen receptor regulation of the Na+/H+ exchanger regulatory factor.  
AUTHOR: Ediger Tracy R; Kraus W Lee; Weinman Edward J; Katzenellenbogen Benita S(a)  
AUTHOR ADDRESS: (a)Department of Molecular and Integrative Physiology, University of Illinois, 407 South Goodwin Av\*\*USA  
JOURNAL: Endocrinology 140 (7):p2976-2982 July, 1999  
ISSN: 0013-7227  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

4/3/26  
DIALOG(R)File 5:Biosis Previews(R)  
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11973521 BIOSIS NO.: 199900226834  
Recognition and regulation of primary-sequence motifs by signaling modular domains.  
AUTHOR: Songyang Zhou(a)  
AUTHOR ADDRESS: (a)Dep. Biochem., Baylor Coll. Med., One Baylor Plaza, Houston, TX 77030\*\*USA  
JOURNAL: Progress in Biophysics & Molecular Biology 71 (3-4):p359-372 April, 1999  
ISSN: 0079-6107  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Citation  
LANGUAGE: English

4/3/27  
DIALOG(R)File 5:Biosis Previews(R)  
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11957520 BIOSIS NO.: 199900203629  
Organization of kinases, phosphatases, and receptor signaling complexes.  
AUTHOR: Schillace Robynn V; Scott John D(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute L-474, Vollum Institute, Oregon Health Sciences University, 3181\*\*USA  
JOURNAL: Journal of Clinical Investigation 103 (6):p761-766 March, 1999

ISSN: 0021-9738  
DOCUMENT TYPE: Article  
RECORD TYPE: Citation  
LANGUAGE: English

4/3/28  
DIALOG(R)File 5:Biosis Previews(R)  
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11926987 BIOSIS NO.: 199900173096  
Modelling of a voltage-dependent Ca<sup>2+</sup> channel beta subunit as a basis for  
understanding its functional properties.  
AUTHOR: Hanlon M R; Berrow N S; Dolphin A C; Wallace B A(a)  
AUTHOR ADDRESS: (a)Department of Crystallography, Birkbeck College,  
University of London, London, WC1E 7HX\*\*UK  
JOURNAL: FEBS Letters 445 (2-3):p366-370 Feb. 26, 1999  
ISSN: 0014-5793  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/29  
DIALOG(R)File 5:Biosis Previews(R)  
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11907067 BIOSIS NO.: 199900153176  
A novel %%%PDZ%%% %%%domain%%% containing guanine nucleotide exchange  
factor links heterotrimeric G protein to Rho.  
AUTHOR: Fukuhara Shigetomo; Murga Cristina; Zohar Muriel; Igishi Tadashi;  
Gutkind J Silvio(a)  
AUTHOR ADDRESS: (a)Oral Pharyngeal Cancer Branch, NIDCR, Natl. Inst.  
Health, 30 Convent Dr., Build. 30 Room 212, Bethesda, MD\*\*USA  
JOURNAL: Journal of Biological Chemistry 274 (9):p5868-5879 Feb. 26, 1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/30  
DIALOG(R)File 5:Biosis Previews(R)  
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11884522 BIOSIS NO.: 199900130631  
Clustering of AMPA receptors by the synaptic %%%PDZ%%% %%%domain%%%  
-containing protein PICK1.  
AUTHOR: Xia Jun; Zhang Xiaoqun; Staudinger Jeff; Huganir Richard L(a)  
AUTHOR ADDRESS: (a)Dep. Neuroscience, Howard Hughes Med. Inst., Johns  
Hopkins Univ., Sch. Med., Baltimore, MD 21205\*\*USA  
JOURNAL: Neuron 22 (1):p179-187 Jan., 1999  
ISSN: 0896-6273  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/31  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

11858891 BIOSIS NO.: 199900105000  
Citron binds to PSD-95 at glutamatergic synapses on inhibitory neurons in  
the hippocampus.  
AUTHOR: Zhang Wandong; Vazquez Luis; Apperson Michelle; Kennedy Mary B(a)  
AUTHOR ADDRESS: (a)Div. Biol. 216-76, Calif. Inst. Technol., Pasadena, CA  
91125\*\*USA  
JOURNAL: Journal of Neuroscience 19 (1):p96-108 Jan. 1, 1999  
ISSN: 0270-6474  
DOCUMENT TYPE: Article

RECORD TYPE: Abstract  
LANGUAGE: English

4/3/32  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

11714110 BIOSIS NO.: 199800495841  
An avian cDNA encoding a tyrosine-phosphorylated protein with PDZ,  
coiled-coil, and SAM domains.  
AUTHOR: Suh Kwang Sun; Ting Yuan-Tsang; Burr John G  
AUTHOR ADDRESS: Univ. Texas Dallas, Dep. Molecular Cell Biol., Richardson,  
TX 75080\*\*USA  
JOURNAL: Gene (Amsterdam) 219 (1-2):p111-123 Sept. 28, 1998  
ISSN: 0378-1119  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/33  
DIALOG(R)File 5:Biosis Previews(R)  
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11691879 BIOSIS NO.: 199800473610  
%%%PDZ%%%-%%%%domain%%%-mediated interaction of the Eph-related receptor  
tyrosine %%%kinase%%% EphB3 and the ras-binding protein AF6 depends on  
the %%%kinase%%% activity of the receptor.  
AUTHOR: Hock Bjorn; Bohme Beatrix; Karn Thomas; Yamamoto Takaharu; Kaibuchi  
Kozo; Holtrich Uwe; Holland Sacha; Pawson Tony; Ruebsamen-Waigmann Helga;  
Strebhardt Klaus(a)  
AUTHOR ADDRESS: (a)Chemotherapeutisches Forschungsinstitut,  
Georg-Speyer-Haus, Paul-Ehrlich-Strasse 42-44, 60596 Fr\*\*Germany  
JOURNAL: Proceedings of the National Academy of Sciences of the United  
States of America 95 (17):p9779-9784 Aug. 18, 1998  
ISSN: 0027-8424  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/34  
DIALOG(R)File 5:Biosis Previews(R)  
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11606734 BIOSIS NO.: 199800388472  
Human CASK/LIN-2 binds Syndecan-2 and protein 4.1 and localizes to the  
basolateral membrane of epithelial cells.  
AUTHOR: Cohen Alexandra R; Wood Daniel F; Marfatia Shirin M; Walther Zenta;  
Chishti Athar H; Anderson James Melvin(a)  
AUTHOR ADDRESS: (a)1080 LMP, Dep. Intern. Med., Yale Univ. Sch. Med., 333  
Cedar St., 1080 LMP, P.O. Box 208019, New\*\*USA  
JOURNAL: Journal of Cell Biology 142 (1):p129-138 July 13, 1998  
ISSN: 0021-9525  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/35  
DIALOG(R)File 5:Biosis Previews(R)  
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11602659 BIOSIS NO.: 199800384272  
Protein %%%kinase%%% C function in %%%signal%%% %%%transduction%%%  
pathways: The eye-specific protein %%%kinase%%% C (ePKC) assembled with  
the TRP calcium channel by the %%%PDZ%%%-%%%%domain%%% protein INAD  
phosphorylation TRP.  
AUTHOR: Huber Armin; Baehner Monika; Sander Philipp; Paulsen Reinhard  
AUTHOR ADDRESS: Inst. Zool. I, Univ. Karlsruhe, 76128 Karlsruhe\*\*Germany

JOURNAL: European Journal of Cell Biology 75 (SUPPL. 48):p59 1998  
CONFERENCE/MEETING: 22nd Annual Meeting of the Deutsche Gesellschaft fuer  
Zellbiologie (German Society for Cell Biology) Saarbruecken, Germany  
March 15-19, 1998  
SPONSOR: German Society for Cell Biology  
ISSN: 0171-9335  
RECORD TYPE: Citation  
LANGUAGE: English

4/3/36  
DIALOG(R)File 5:Biosis Previews(R)  
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11582761 BIOSIS NO.: 199800363457  
Interaction of eye protein \*\*\*kinase\*\*\* C and INAD in Drosophila:  
Localization of binding domains and electrophysiological characterization  
of a loss of association in transgenic flies.  
AUTHOR: Adamski Frances Mary; Zhu Mei-Ying; Bahiraei Frohar; Shieh Bih-Hwa  
(a)  
AUTHOR ADDRESS: (a)Dep. Pharmacol., 402 Medical Research Build. I.,  
Vanderbilt Univ., Nashville, TN 37232-6600\*\*USA  
JOURNAL: Journal of Biological Chemistry 273 (28):p17713-17719 July 10,  
1998  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/37  
DIALOG(R)File 5:Biosis Previews(R)  
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11447880 BIOSIS NO.: 199800229212  
Thr TRP Ca<sup>2+</sup> channel assembled in a signaling complex by the \*\*\*PDZ\*\*\*  
\*\*\*domain\*\*\* protein INAD is phosphorylated through the interaction with  
protein \*\*\*kinase\*\*\* C (ePKC).  
AUTHOR: Huber Armin(a); Sander Philipp; Baehner Monika; Paulsen Reinhard  
AUTHOR ADDRESS: (a)Zool. Inst. I, Univ. Karlsruhe, P.O. Box 6980, 786128  
Karlsruhe\*\*Germany  
JOURNAL: FEBS Letters 425 (2):p317-322 March 27, 1998  
ISSN: 0014-5793  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

4/3/38  
DIALOG(R)File 5:Biosis Previews(R)  
(c) 2003 BIOSIS. All rts. reserv.

11379724 BIOSIS NO.: 199800161056  
Molecular cloning and characterization of rat lin-10.  
AUTHOR: Ide Nobuyuki; Hirao Kazuyo; Hata Yutaka; Takeuchi Masakazu; Irie  
Mina; Yao Ikuko; Deguchi Maki; Toyoda Atsushi; Nishioka Hideo; Mizoguchi  
Akira; Takai Yoshimi(a)  
AUTHOR ADDRESS: (a)Dep. Mol. Biol. and Biochem., Osaka Univ. Med. Sch., 2-2  
Yamada-oka, Suite 565\*\*Japan  
JOURNAL: Biochemical and Biophysical Research Communications 243 (2):p  
634-638 Feb. 13, 1998  
ISSN: 0006-291X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

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5/3/1  
DIALOG(R)File 5:Biosis Previews(R)

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14027726 BIOSIS NO.: 200300021755  
Evaluating function of transmembrane protein tyrosine \*\*\*phosphatase\*\*\*  
CD148 in lymphocyte biology.  
AUTHOR: Harrod Thomas P; Justement Louis B(a)  
AUTHOR ADDRESS: (a)University of Alabama at Birmingham, Birmingham, AL,  
35294-3300, USA\*\*USA E-Mail: louis.justement@ccc.uab.edu  
JOURNAL: Immunologic Research 26 (1-3):p153-166 2002  
MEDIUM: print  
ISSN: 0257-277X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English

5/3/2  
DIALOG(R)File 5:Biosis Previews(R)  
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13177570 BIOSIS NO.: 200100384719  
Targeting mutants of PTEN reveal distinct subsets of tumour suppressor  
functions.  
AUTHOR: Leslie Nick R(a); Bennett Deborah; Gray Alex; Pass Ian; Hoang-Xuan  
Khe; Downes C Peter  
AUTHOR ADDRESS: (a)Division of Signal Transduction Therapy, Department of  
Biochemistry, University of Dundee, Dundee, DD1 5EH:  
n.r.leslie@dundee.ac.uk\*\*UK  
JOURNAL: Biochemical Journal 357 (2):p427-435 15 July, 2001  
MEDIUM: print  
ISSN: 0264-6021  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

5/3/3  
DIALOG(R)File 5:Biosis Previews(R)  
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12906937 BIOSIS NO.: 200100114086  
Peptide binding studies of GST and 6His-cmyc tagged forms of the Fas  
binding \*\*\*PDZ\*\*\* \*\*\*domain\*\*\* of the protein tyrosine \*\*\*phosphatase\*\*\*  
FAP-1.  
AUTHOR: Haye H R(a); Blowers D P(a); Hampton I P(a); Taylor I W(a); Grundy  
C(a); Tonge D W(a)  
AUTHOR ADDRESS: (a)AstraZeneca Pharmaceuticals, Alderley Park,  
Macclesfield, Cheshire, SK10 4TG\*\*UK  
JOURNAL: Biochemical Society Transactions 28 (5):pA429 October, 2000  
MEDIUM: print  
CONFERENCE/MEETING: 18th International Congress of Biochemistry and  
Molecular Biology Birmingham, UK July 16-20, 2000  
ISSN: 0300-5127  
RECORD TYPE: Citation  
LANGUAGE: English  
SUMMARY LANGUAGE: English

5/3/4  
DIALOG(R)File 5:Biosis Previews(R)  
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12622269 BIOSIS NO.: 200000375771  
Interaction of the tumor suppressor PTEN/MMAC with a \*\*\*PDZ\*\*\* \*\*\*domain\*\*\*  
of MAGI3, a novel membrane-associated guanylate kinase.  
AUTHOR: Wu Yan; Dowbenko Donald; Spencer Susan; Laura Richard; Lee James;  
Gu Qimin; Lasky Laurence A(a)  
AUTHOR ADDRESS: (a)Dept. of Molecular Oncology, Genentech, Inc., 460 Pt.  
San Bruno Blvd., South San Francisco, CA, 94080\*\*USA  
JOURNAL: Journal of Biological Chemistry 275 (28):p21477-21485 July 14,

2000  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

5/3/5  
DIALOG(R)File 5:Biosis Previews(R)  
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12581684 BIOSIS NO.: 200000335186  
Protein \*\*\*phosphatase\*\*\* 2Calpha dephosphorylates axin and activates  
LEF-1-dependent transcription.  
AUTHOR: Strovel Erin T; Wu Dianqing; Sussman Daniel J(a)  
AUTHOR ADDRESS: (a)Div. of Human Genetics, University of Maryland School of  
Medicine, 655 W. Baltimore St., Baltimore, MD, 21201\*\*USA  
JOURNAL: Journal of Biological Chemistry 275 (4):p2399-2403 January 28,  
2000  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

5/3/6  
DIALOG(R)File 5:Biosis Previews(R)  
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12280104 BIOSIS NO.: 200000033606  
Functional interaction of Fas-associated \*\*\*phosphatase\*\*\*-1 (FAP-1) with  
p75NTR and their effect on NF-kappaB activation.  
AUTHOR: Irie Shinji(a); Hachiya Takahisa; Rabizadeh Shahrooz; Maruyama  
Wakae; Mukai Jun; Li Yin; Reed John C; Bredesen Dale E; Sato Taka-Aki  
AUTHOR ADDRESS: (a)Molecular Oncology Laboratory, Tsukuba Life Science  
Center, Institute of Physical and Chemical Research (RIKEN), Ibaraki,  
305-0074\*\*Japan  
JOURNAL: FEBS Letters 460 (2):p191-198 Oct. 29, 1999  
ISSN: 0014-5793  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

5/3/7  
DIALOG(R)File 5:Biosis Previews(R)  
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12090533 BIOSIS NO.: 199900385382  
Association of the D2 dopamine receptor third cytoplasmic loop with  
spinophilin, a protein \*\*\*phosphatase\*\*\*-1-interacting protein.  
AUTHOR: Smith F Donelson; Oxford Gerry S; Milgram Sharon L(a)  
AUTHOR ADDRESS: (a)Cell and Molecular Physiology, University of North  
Carolina at Chapel Hill, CB No. 7545, Chapel \*\*USA  
JOURNAL: Journal of Biological Chemistry 274 (28):p19894-19900 July 9,  
1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

5/3/8  
DIALOG(R)File 5:Biosis Previews(R)  
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11957520 BIOSIS NO.: 199900203629  
Organization of kinases, phosphatases, and receptor signaling complexes.  
AUTHOR: Schillace Robynn V; Scott John D(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute L-474, Vollum Institute,  
Oregon Health Sciences University, 3181\*\*USA  
JOURNAL: Journal of Clinical Investigation 103 (6):p761-766 March, 1999  
ISSN: 0021-9738  
DOCUMENT TYPE: Article  
RECORD TYPE: Citation  
LANGUAGE: English

5/3/9  
DIALOG(R)File 5:Biosis Previews(R)  
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11714110 BIOSIS NO.: 199800495841  
An avian cDNA encoding a tyrosine-phosphorylated protein with PDZ,  
coiled-coil, and SAM domains.  
AUTHOR: Suh Kwang Sun; Ting Yuan-Tsang; Burr John G  
AUTHOR ADDRESS: Univ. Texas Dallas, Dep. Molecular Cell Biol., Richardson,  
TX 75080\*\*USA  
JOURNAL: Gene (Amsterdam) 219 (1-2):p111-123 Sept. 28, 1998  
ISSN: 0378-1119  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

5/3/10  
DIALOG(R)File 5:Biosis Previews(R)  
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11160346 BIOSIS NO.: 199799781491  
A novel GTPase-activating protein for Rho interacts with a %%%PDZ%%%  
%%%domain%%% of the protein-tyrosine %%%phosphatase%%% PTPL1.  
AUTHOR: Saras Jan(a); Franzen Petra; Aspenstroem Pontus; Hellman Ulf; Gomez  
Leonel Jorge; Heldin Carl-Henrik  
AUTHOR ADDRESS: (a)Ludwig Inst. Cancer Res., Box 595, Biomed. Cent., S-751  
24 Uppsala\*\*Sweden  
JOURNAL: Journal of Biological Chemistry 272 (39):p24333-24338 1997  
ISSN: 0021-9258  
RECORD TYPE: Abstract  
LANGUAGE: English

? t s6/3/1-4

6/3/1  
DIALOG(R)File 5:Biosis Previews(R)  
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13331476 BIOSIS NO.: 200100538625  
The roles of PDZ-containing proteins in PLC-beta-mediated signaling.  
AUTHOR: Suh Pann-Ghill(a); Hwang Jong-Ik; Ryu Sung Ho; Donowitz Mark; Kim  
Jae Ho  
AUTHOR ADDRESS: (a)Division of Molecular and Life Science, Pohang  
University of Science and Technology, Pohang, 790-784: pgs@postech.ac.kr  
\*\*South Korea  
JOURNAL: Biochemical and Biophysical Research Communications 288 (1):p1-7  
October 19, 2001  
MEDIUM: print  
ISSN: 0006-291X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

6/3/2

DIALOG(R)File 5:Biosis Previews(R)  
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13045006 BIOSIS NO.: 200100252155  
Ephrin-B reverse signaling is mediated by a novel PDZ-RGS protein and  
selectively inhibits G protein-coupled chemoattraction.  
AUTHOR: Lu Qiang; Sun Edna E; Klein Robyn S; Flanagan John G(a)  
AUTHOR ADDRESS: (a)Department of Cell Biology and Program in Neuroscience,  
Harvard Medical School, 240 Longwood Avenue, Boston, MA, 02115:  
flanagan@hms.harvard.edu\*\*USA  
JOURNAL: Cell 105 (1):p69-79 April 6, 2001  
MEDIUM: print  
ISSN: 0092-8674  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

6/3/3  
DIALOG(R)File 5:Biosis Previews(R)  
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12202185 BIOSIS NO.: 199900497034  
A kinase-regulated \*\*\*PDZ\*\*\*-\*\*\*domain\*\*\* interaction controls endocytic  
sorting of the beta2-adrenergic receptor.  
AUTHOR: Cao Tracy T; Deacon Heather W; Reczek David; Bretscher Anthony; von  
Zastrow Mark(a)  
AUTHOR ADDRESS: (a)Program in Cell Biology, Cellular and Molecular  
Pharmacology and Psychiatry, University of California, San Francisco, San  
Francisco, CA, 94143\*\*USA  
JOURNAL: Nature (London) 401 (6750):p286-290 Sept. 16, 1999  
ISSN: 0028-0836  
DOCUMENT TYPE: Letter; Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

6/3/4  
DIALOG(R)File 5:Biosis Previews(R)  
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12136600 BIOSIS NO.: 199900431449  
\*\*\*G\*\*\* \*\*\*protein\*\*\*-\*\*\*coupled\*\*\* \*\*\*receptor\*\*\* kinase 6A phosphorylates  
the Na+/H+ exchanger regulatory factor via a \*\*\*PDZ\*\*\* \*\*\*domain\*\*\*  
-mediated interaction.  
AUTHOR: Hall Randy A; Spurney Robert F; Premont Richard T; Rahman Nadeem;  
Blitzer Jeremy T; Pitcher Julie A; Lefkowitz Robert J(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute, Duke University Medical  
Center, Durham, NC, 27710\*\*USA  
JOURNAL: Journal of Biological Chemistry 274 (34):p24328-24334 Aug. 20,  
1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

? t s7/3/1

7/3/1  
DIALOG(R)File 5:Biosis Previews(R)  
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11379724 BIOSIS NO.: 199800161056  
Molecular cloning and characterization of rat lin-10.  
AUTHOR: Ide Nobuyuki; Hirao Kazuyo; Hata Yutaka; Takeuchi Masakazu; Irie  
Mina; Yao Ikuko; Deguchi Maki; Toyoda Atsushi; Nishioka Hideo; Mizoguchi  
Akira; Takai Yoshimi(a)

AUTHOR ADDRESS: (a)Dep. Mol. Biol. and Biochem., Osaka Univ. Med. Sch., 2-2 Yamada-oka, Suite 565\*\*Japan  
JOURNAL: Biochemical and Biophysical Research Communications 243 (2):p 634-638 Feb. 13, 1998  
ISSN: 0006-291X  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
? t s9/3/1-4

9/3/1  
DIALOG(R)File 5:Biosis Previews(R)  
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13709846 BIOSIS NO.: 200200338667  
The multivalent \*\*\*PDZ\*\*\* \*\*\*domain\*\*\*-containing protein CIPP is a partner of acid-sensing \*\*\*ion\*\*\* \*\*\*channel\*\*\* 3 in sensory neurons.  
AUTHOR: Anzai Naohiko; Deval Emmanuel; Schaefer Lionel; Friend Valerie; Lazdunski Michel(a); Lingueglia Eric  
AUTHOR ADDRESS: (a)Institut de Pharmacologie Moleculaire et Cellulaire, CNRS-UMR6097, 660 Route des Lucioles, Sophia Antipolis, Valbonne, 06560\*\* France E-Mail: ipmc@ipmc.cnrs.fr  
JOURNAL: Journal of Biological Chemistry 277 (19):p16655-16661 May 10, 2002  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/2  
DIALOG(R)File 5:Biosis Previews(R)  
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12327854 BIOSIS NO.: 200000081356  
The organization of INAD-signaling complexes by a multivalent \*\*\*PDZ\*\*\* \*\*\*domain\*\*\* protein in Drosophila photoreceptor cells ensures sensitivity and speed of signaling.  
AUTHOR: Tsunoda S(a); Zuker C S(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute and Departments of Biology and Neurosciences, University of California, San Diego, La Jolla, Ca\*\*USA  
JOURNAL: Cell Calcium 26 (5):p165-171 Nov. , 1999  
ISSN: 0143-4160  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

9/3/3  
DIALOG(R)File 5:Biosis Previews(R)  
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11447880 BIOSIS NO.: 199800229212  
Thr TRP Ca<sup>2+</sup>+ channel assembled in a signaling complex by the \*\*\*PDZ\*\*\* \*\*\*domain\*\*\* protein INAD is phosphorylated through the interaction with protein kinase C (ePKC).  
AUTHOR: Huber Armin(a); Sander Philipp; Baehner Monika; Paulsen Reinhard  
AUTHOR ADDRESS: (a)Zool. Inst. I, Univ. Karlsruhe, P.O. Box 6980, 786128 Karlsruhe\*\*Germany  
JOURNAL: FEBS Letters 425 (2):p317-322 March 27, 1998  
ISSN: 0014-5793  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

9/3/4  
DIALOG(R)File 5:Biosis Previews(R)

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10325020 BIOSIS NO.: 199698779938  
Interaction between the C terminus of NMDA receptor subunits and multiple members of the PSD-95 family of membrane-associated guanylate kinases.  
AUTHOR: Niethammer Martin; Kim Eunjoon; Sheng Morgan(a)  
AUTHOR ADDRESS: (a)Massachusetts Gen. Hosp., Wellmann 423, 50 Blossom Street, Boston, MA 02114\*\*USA  
JOURNAL: Journal of Neuroscience 16 (7):p2157-2163 1996  
ISSN: 0270-6474  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
? t s9/7/4

9/7/4  
DIALOG(R)File 5:Biosis Previews(R)  
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10325020 BIOSIS NO.: 199698779938  
Interaction between the C terminus of NMDA receptor subunits and multiple members of the PSD-95 family of membrane-associated guanylate kinases.  
AUTHOR: Niethammer Martin; Kim Eunjoon; Sheng Morgan(a)  
AUTHOR ADDRESS: (a)Massachusetts Gen. Hosp., Wellmann 423, 50 Blossom Street, Boston, MA 02114\*\*USA  
JOURNAL: Journal of Neuroscience 16 (7):p2157-2163 1996  
ISSN: 0270-6474  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

ABSTRACT: Selective concentration and anchoring of ionotropic receptors at the synapse is essential for neuronal signaling. Little is known about the molecules that mediate receptor clustering in the CNS. With use of the yeast two-hybrid system to screen a rat brain cDNA library and by in vitro binding assays, we have identified an interaction between NMDA receptor subunits 2A and 2B (NR2A and NR2B) and three distinct members of the PSD-95/SAP90 family of membrane-associated putative guanylate kinases. The interaction is mediated by binding of the C terminus of the NMDA receptor subunits to the first two PDZ (also known as GLGF or DHR) domains of PSD-95/SAP90, an abundant synaptic protein associated with the membrane cytoskeleton. PSD-95 is also known to bind and cluster Shaker-type voltage-gated K<sup>+</sup> channels. Similarities between the C termini of NR2 subunits and K<sup>+</sup> channels suggest a common C-terminal binding motif for PDZ domains. These data suggest that PDZ domains can function as modules for protein-protein interactions. Members of the PSD-95 family might serve to anchor NMDA receptors to the submembrane cytoskeleton and aid in the assembly of \*\*\*signal\*\*\* \*\*\*transduction\*\*\* complexes at postsynaptic sites.

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10/3/1  
DIALOG(R)File 5:Biosis Previews(R)  
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14074076 BIOSIS NO.: 200300068105  
Protein kinase C (PKC) isoforms in Drosophila.  
AUTHOR: Shieh Bih-Hwa(a); Parker Lisan; Popescu Daniela  
AUTHOR ADDRESS: (a)Department of Pharmacology and Center for Molecular Neuroscience, Vanderbilt University, 402 Robinson Research Building, Nashville, TN, 37232, USA\*\*USA E-Mail: bih-hwa.shieh@vanderbilt.edu  
JOURNAL: Journal of Biochemistry (Tokyo) 132 (4):p523-527 Oct. 2002  
MEDIUM: print  
ISSN: 0021-924X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English

10/3/2  
DIALOG(R)File 5:Biosis Previews(R)  
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14059201 BIOSIS NO.: 200300053230  
Plexin B regulates Rho through the guanine nucleotide exchange factors  
Leukemia-associated Rho GEF (LARG) and PDZ-RhogEF.  
AUTHOR: Perrot Valerie; Vazquez-Prado Jose; Gutkind J Silvio(a)  
AUTHOR ADDRESS: (a)Oral and Pharyngeal Cancer Branch, National Institute of  
Dental and Craniofacial Research, National Institutes of Health, 9000  
Rockville Pike, Bldg. 30, Rm. 211, Bethesda, MD, 20892-4340, USA\*\*USA  
E-Mail: sg39v@nih.gov  
JOURNAL: Journal of Biological Chemistry 277 (45):p43115-43120 November 8  
2002 2002  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

10/3/3  
DIALOG(R)File 5:Biosis Previews(R)  
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13973173 BIOSIS NO.: 200200601994  
Regulation of GTP-binding protein alphaq (Galphaq) signaling by the  
ezrin-radixin-moesin-binding phosphoprotein-50 (EBP50).  
AUTHOR: Rochdi Moulay Driss; Watier Valerie; La Madeleine Carole; Nakata  
Hiroko; Kozasa Tohru; Parent Jean-Luc(a)  
AUTHOR ADDRESS: (a)Service de Rhumatologie, Faculte de Medecine, Universite  
de Sherbrooke, 3001, 12th Avenue Nord, Fleurimont, PQ, J1H 5N4\*\*Canada  
E-Mail: jean-luc.parent@USherbrooke.ca  
JOURNAL: Journal of Biological Chemistry 277 (43):p40751-40759 October 25,  
2002  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

10/3/4  
DIALOG(R)File 5:Biosis Previews(R)  
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13896471 BIOSIS NO.: 200200525292  
C2PA is a nuclear protein implicated in the heat shock response.  
AUTHOR: Hirabayashi Susumu; Ohno Hideki; Iida Junko; Hata Yutaka(a)  
AUTHOR ADDRESS: (a)Department of Medical Biochemistry, Graduate School of  
Medicine, Tokyo Medical and Dental University, 1-5-45 Yushima, Bunkyo-ku,  
Tokyo, 113-8519\*\*Japan E-Mail: yuhammch@med.tmd.ac.jp  
JOURNAL: Journal of Cellular Biochemistry 87 (1):p65-74 2002  
MEDIUM: print  
ISSN: 0730-2312  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

10/3/5  
DIALOG(R)File 5:Biosis Previews(R)  
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13637772 BIOSIS NO.: 200200266593  
GIPC participates in %%%G%%% \*\*\*protein\*\*\* signaling downstream of  
insulin-like growth factor 1 receptor.  
AUTHOR: Booth Ronald A; Cummings Cathy; Tiberi Mario; Liu X Johne(a)  
AUTHOR ADDRESS: (a)Ottawa Health Research Institute, Ottawa Hospital,  
Ottawa, ON, K1Y 4E9\*\*Canada E-Mail: jliu@ohri.ca

JOURNAL: Journal of Biological Chemistry 277 (8):p6719-6725 February 22, 2002  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

10/3/6  
DIALOG(R)File 5:Biosis Previews(R)  
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13331476 BIOSIS NO.: 200100538625  
The roles of PDZ-containing proteins in PLC-beta-mediated signaling.  
AUTHOR: Suh Pann-Ghill(a); Hwang Jong-Ik; Ryu Sung Ho; Donowitz Mark; Kim Jae Ho  
AUTHOR ADDRESS: (a)Division of Molecular and Life Science, Pohang University of Science and Technology, Pohang, 790-784: pgs@postech.ac.kr \*\*South Korea  
JOURNAL: Biochemical and Biophysical Research Communications 288 (1):p1-7  
October 19, 2001  
MEDIUM: print  
ISSN: 0006-291X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/7  
DIALOG(R)File 5:Biosis Previews(R)  
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13331224 BIOSIS NO.: 200100538373  
Interaction of the GABAB receptor with the multiple PDZ protein MUPP1.  
AUTHOR: Ige A O(a); Wise A; Billinton A(a); Marshall F H; Emson P C(a); White J H  
AUTHOR ADDRESS: (a)Neurobiology, Babraham Institute, Cambridge\*\*UK  
JOURNAL: Society for Neuroscience Abstracts 27 (2):p1575 2001  
MEDIUM: print  
CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/8  
DIALOG(R)File 5:Biosis Previews(R)  
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13306876 BIOSIS NO.: 200100514025  
Expanding the role of NHERF, a %PDZ%-%domain% containing protein adapter, to growth regulation.  
AUTHOR: Voltz James W; Weinman Edward J; Shenolikar Shirish(a)  
AUTHOR ADDRESS: (a)Department of Pharmacology and Cancer Biology, Duke University Medical Center, Durham, NC, 27710: sheno001@mc.duke.edu\*\*USA  
JOURNAL: Oncogene 20 (44):p6309-6314 1 October, 2001  
MEDIUM: print  
ISSN: 0950-9232  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/9  
DIALOG(R)File 5:Biosis Previews(R)  
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13290242 BIOSIS NO.: 200100497391  
The Multi-%%%PDZ%%% %%Domain%%% Protein MUPP1 is a putative scaffolding protein in chemosensory neurons.  
AUTHOR: Elsaesser R(a); Fleischer J(a); Breer H(a); Paysan J(a)  
AUTHOR ADDRESS: (a)Physiology, University of Hohenheim, Stuttgart\*\*Germany  
JOURNAL: Society for Neuroscience Abstracts 27 (1):p162 2001  
MEDIUM: print  
CONFERENCE/MEETING: 31st Annual Meeting of the Society for Neuroscience San Diego, California, USA November 10-15, 2001  
ISSN: 0190-5295  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/10  
DIALOG(R)File 5:Biosis Previews(R)  
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13045006 BIOSIS NO.: 200100252155  
Ephrin-B reverse signaling is mediated by a novel PDZ-RGS protein and selectively inhibits %%%G%%% %%protein%%% -coupled chemoattraction.  
AUTHOR: Lu Qiang; Sun Edna E; Klein Robyn S; Flanagan John G(a)  
AUTHOR ADDRESS: (a)Department of Cell Biology and Program in Neuroscience, Harvard Medical School, 240 Longwood Avenue, Boston, MA, 02115: flanagan@hms.harvard.edu\*\*USA  
JOURNAL: Cell 105 (1):p69-79 April 6, 2001  
MEDIUM: print  
ISSN: 0092-8674  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/11  
DIALOG(R)File 5:Biosis Previews(R)  
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12841383 BIOSIS NO.: 200100048532  
Leukemia-associated Rho guanine nucleotide exchange factor (LARG) links heterotrimeric G proteins of the G12 family to Rho.  
AUTHOR: Fukuhara Shigetomo; Chikumi Hiroki; Gutkind J Silvio(a)  
AUTHOR ADDRESS: (a)Oral and Pharyngeal Cancer Branch, National Institute of Dental and Craniofacial Research, National Institutes of Health, 9000 Rockville Pike, Building 30, Room 211, Bethesda, MD, 20892-4330: sg39v@nih.gov\*\*USA  
JOURNAL: FEBS Letters 485 (2-3):p183-188 24 November, 2000  
MEDIUM: print  
ISSN: 0014-5793  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/12  
DIALOG(R)File 5:Biosis Previews(R)  
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12691705 BIOSIS NO.: 200000445207  
Regulation of phospholipase C-beta3 activity by Na+/H+ exchanger regulatory factor 2.  
AUTHOR: Hwang Jong-Ik; Heo Kyun; Shin Kum-Joo; Kim Eunjoon; Yun C-H Chris; Ryu Sung Ho; Shin Hee-Sup; Suh Pann-Ghill(a)  
AUTHOR ADDRESS: (a)Department of Life Science, National Creative Research Initiative Center for Calcium and Learning, Division of Molecular and Life Science and School of Environmental Engineering, Pohang University of Science and Technology, Pohang, 790-784\*\*South Korea  
JOURNAL: Journal of Biological Chemistry 275 (22):p16632-16637 June 2,

2000  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/13  
DIALOG(R)File 5:Biosis Previews(R)  
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12202185 BIOSIS NO.: 199900497034  
A kinase-regulated \*\*\*PDZ\*\*\*-\*\*\*domain\*\*\* interaction controls endocytic sorting of the beta2-adrenergic receptor.  
AUTHOR: Cao Tracy T; Deacon Heather W; Reczek David; Bretscher Anthony; von Zastrow Mark(a)  
AUTHOR ADDRESS: (a)Program in Cell Biology, Cellular and Molecular Pharmacology and Psychiatry, University of California, San Francisco, San Francisco, CA, 94143\*\*USA  
JOURNAL: Nature (London) 401 (6750):p286-290 Sept. 16, 1999  
ISSN: 0028-0836  
DOCUMENT TYPE: Letter; Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/14  
DIALOG(R)File 5:Biosis Previews(R)  
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12136600 BIOSIS NO.: 199900431449  
\*\*\*G\*\*\* \*\*\*protein\*\*\*-coupled receptor kinase 6A phosphorylates the Na+/H+ exchanger regulatory factor via a \*\*\*PDZ\*\*\* \*\*\*domain\*\*\*-mediated interaction.  
AUTHOR: Hall Randy A; Spurney Robert F; Premont Richard T; Rahman Nadeem; Blitzer Jeremy T; Pitcher Julie A; Lefkowitz Robert J(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute, Duke University Medical Center, Durham, NC, 27710\*\*USA  
JOURNAL: Journal of Biological Chemistry 274 (34):p24328-24334 Aug. 20, 1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

10/3/15  
DIALOG(R)File 5:Biosis Previews(R)  
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11907067 BIOSIS NO.: 199900153176  
A novel \*\*\*PDZ\*\*\* \*\*\*domain\*\*\* containing guanine nucleotide exchange factor links heterotrimeric \*\*\*G\*\*\* \*\*\*protein\*\*\* to Rho.  
AUTHOR: Fukuhara Shigetomo; Murga Cristina; Zohar Muriel; Igishi Tadashi; Gutkind J Silvio(a)  
AUTHOR ADDRESS: (a)Oral Pharyngeal Cancer Branch, NIDCR, Natl. Inst. Health, 30 Convent Dr., Build. 30 Room 212, Bethesda\*\*USA  
JOURNAL: Journal of Biological Chemistry 274 (9):p5868-5879 Feb. 26, 1999  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

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11/3/1  
DIALOG(R)File 5:Biosis Previews(R)

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14074076 BIOSIS NO.: 200300068105  
Protein kinase C (PKC) isoforms in Drosophila.  
AUTHOR: Shieh Bih-Hwa(a); Parker Lisan; Popescu Daniela  
AUTHOR ADDRESS: (a)Department of Pharmacology and Center for Molecular  
Neuroscience, Vanderbilt University, 402 Robinson Research Building,  
Nashville, TN, 37232, USA\*\*USA E-Mail: bih-hwa.shieh@vanderbilt.edu  
JOURNAL: Journal of Biochemistry (Tokyo) 132 (4):p523-527 Oct. 2002 2002  
MEDIUM: print  
ISSN: 0021-924X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English

11/3/2  
DIALOG(R)File 5:Biosis Previews(R)  
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13973173 BIOSIS NO.: 200200601994  
Regulation of GTP-binding protein alphaq (Galphaq) signaling by the  
ezrin-radixin-moesin-binding phosphoprotein-50 (EBP50).  
AUTHOR: Rochdi Moulay Driss; Watier Valerie; La Madeleine Carole; Nakata  
Hiroko; Kozasa Tohru; Parent Jean-Luc(a)  
AUTHOR ADDRESS: (a)Service de Rhumatologie, Faculte de Medecine, Universite  
de Sherbrooke, 3001, 12th Avenue Nord, Fleurimont, PQ, J1H 5N4\*\*Canada  
E-Mail: jean-luc.parent@USherbrooke.ca  
JOURNAL: Journal of Biological Chemistry 277 (43):p40751-40759 October 25,  
2002  
MEDIUM: print  
ISSN: 0021-9258  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English

11/3/3  
DIALOG(R)File 5:Biosis Previews(R)  
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13331476 BIOSIS NO.: 200100538625  
The roles of PDZ-containing proteins in PLC-beta-mediated signaling.  
AUTHOR: Suh Pann-Ghill(a); Hwang Jong-Ik; Ryu Sung Ho; Donowitz Mark; Kim  
Jae Ho  
AUTHOR ADDRESS: (a)Division of Molecular and Life Science, Pohang  
University of Science and Technology, Pohang, 790-784: pgs@postech.ac.kr  
\*\*South Korea  
JOURNAL: Biochemical and Biophysical Research Communications 288 (1):p1-7  
October 19, 2001  
MEDIUM: print  
ISSN: 0006-291X  
DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

11/3/4  
DIALOG(R)File 5:Biosis Previews(R)  
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13306876 BIOSIS NO.: 200100514025  
Expanding the role of NHERF, a %%%PDZ%%%-%%%domain%%% containing protein  
adapter, to growth regulation.  
AUTHOR: Voltz James W; Weinman Edward J; Shenolikar Shirish(a)  
AUTHOR ADDRESS: (a)Department of Pharmacology and Cancer Biology, Duke  
University Medical Center, Durham, NC, 27710: sheno001@mc.duke.edu\*\*USA  
JOURNAL: Oncogene 20 (44):p6309-6314 1 October, 2001  
MEDIUM: print  
ISSN: 0950-9232

DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

11/3/5  
DIALOG(R)File 5:Biosis Previews(R)  
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13220557 BIOSIS NO.: 200100427706  
Functional relevance of the disulfide-linked complex of the N-terminal  
  %%%PDZ%%% %%domain%%% of InaD with NorpA.  
AUTHOR: Kimple Michelle E; Siderovski David P; Sondek John(a)  
AUTHOR ADDRESS: (a)Department of Biochemistry and Biophysics, University of  
North Carolina at Chapel Hill, Chapel Hill, NC, 27599: sondek@med.unc.edu  
\*\*USA  
JOURNAL: EMBO (European Molecular Biology Organization) Journal 20 (16):p  
4414-4422 August 15, 2001  
MEDIUM: print  
ISSN: 0261-4189  
DOCUMENT TYPE: Article  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

11/3/6  
DIALOG(R)File 5:Biosis Previews(R)  
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12691705 BIOSIS NO.: 200000445207  
Regulation of %%%phospholipase%%% C-beta3 activity by Na+/H+ exchanger  
regulatory factor 2.  
AUTHOR: Hwang Jong-Ik; Heo Kyun; Shin Kum-Joo; Kim Eunjoon; Yun C-H Chris;  
Ryu Sung Ho; Shin Hee-Sup; Suh Pann-Ghill(a)  
AUTHOR ADDRESS: (a)Department of Life Science, National Creative Research  
Initiative Center for Calcium and Learning, Division of Molecular and  
Life Science and School of Environmental Engineering, Pohang University  
of Science and Technology, Pohang, 790-784\*\*South Korea  
JOURNAL: Journal of Biological Chemistry 275 (22):p16632-16637 June 2,  
2000  
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12327854 BIOSIS NO.: 200000081356  
The organization of INAD-signaling complexes by a multivalent %%%PDZ%%%  
  %%%domain%%% protein in Drosophila photoreceptor cells ensures  
sensitivity and speed of signaling.  
AUTHOR: Tsunoda S(a); Zuker C S(a)  
AUTHOR ADDRESS: (a)Howard Hughes Medical Institute and Departments of  
Biology and Neurosciences, University of California, San Diego, La Jolla,  
Ca\*\*USA  
JOURNAL: Cell Calcium 26 (5):p165-171 Nov. , 1999  
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DOCUMENT TYPE: Literature Review  
RECORD TYPE: Abstract  
LANGUAGE: English  
SUMMARY LANGUAGE: English

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11582761 BIOSIS NO.: 199800363457  
Interaction of eye protein kinase C and INAD in Drosophila: Localization of binding domains and electrophysiological characterization of a loss of association in transgenic flies.  
AUTHOR: Adamski Frances Mary; Zhu Mei-Ying; Bahiraei Frohar; Shieh Bih-Hwa (a)  
AUTHOR ADDRESS: (a)Dep. Pharmacol., 402 Medical Research Build. I., Vanderbilt Univ., Nashville, TN 37232-6600\*\*USA  
JOURNAL: Journal of Biological Chemistry 273 (28):p17713-17719 July 10, 1998  
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11447880 BIOSIS NO.: 199800229212  
Thr TRP Ca<sup>2+</sup> channel assembled in a signaling complex by the \*\*\*PDZ\*\*\*-\*\*\*domain\*\*\* protein INAD is phosphorylated through the interaction with protein kinase C (ePKC).  
AUTHOR: Huber Armin(a); Sander Philipp; Baehner Monika; Paulsen Reinhard  
AUTHOR ADDRESS: (a)Zool. Inst. I, Univ. Karlsruhe, P.O. Box 6980, 786128 Karlsruhe\*\*Germany  
JOURNAL: FEBS Letters 425 (2):p317-322 March 27, 1998  
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11038424 BIOSIS NO.: 199799659569  
A multivalent \*\*\*PDZ\*\*\*-\*\*\*domain\*\*\* protein assembles signalling complexes in a G-protein-coupled cascade.  
AUTHOR: Tsunoda Susan; Sierralta Jimena; Sun Yumei; Bodner Ruth; Suzuki Emiko; Becker Ann; Socolich Michael; \*\*\*Zuker Charles S\*\*\*  
AUTHOR ADDRESS: (a)Howard Hughes Med. Inst., Dep. Neurosci., Univ. California at San Diego, La Jolla, CA 92093-0649\*\*USA  
JOURNAL: Nature (London) 388 (6639):p243-249 1997  
ISSN: 0028-0836  
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LANGUAGE: English

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14027603 BIOSIS NO.: 200300021632  
Putative role for a myosin motor in store-operated calcium entry.  
AUTHOR: Bauer Natalie N; Stevens Troy(a)  
AUTHOR ADDRESS: (a)Department of Pharmacology, College of Medicine, University of South Alabama, Mobile, AL, 36688, USA\*\*USA E-Mail: tstevens@jaguar1.usouthal.edu  
JOURNAL: Cell Biochemistry and Biophysics 37 (1):p53-70 2002  
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ISSN: 1085-9195  
DOCUMENT TYPE: Literature Review  
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12496693 BIOSIS NO.: 200000250195  
The PDZ assembled "%%%transducisome%%%" of microvillar photoreceptors: The TRP/TRPL problem.  
AUTHOR: Paulsen Reinhard(a); Baehner Monika(a); Huber Armin(a)  
AUTHOR ADDRESS: (a)Department of Cell- and Neurobiology, University of Karlsruhe, Kornblumenstr. 13, 76128, Karlsruhe\*\*Germany  
JOURNAL: Pfluegers Archiv European Journal of Physiology 439 (3 Suppl.):p R181-R183 2000  
CONFERENCE/MEETING: 1998 Life Sciences Conference: Signalling Concepts in Life Sciences. Godz Martuljek, Slovenia September 19-24, 1998  
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DOCUMENT TYPE: Article  
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11957043 BIOSIS NO.: 199900203152  
PDZ domains: Fundamental building blocks in the organization of protein complexes at the plasma membrane.  
AUTHOR: Fanning Alan S(a); Anderson James Melvin  
AUTHOR ADDRESS: (a)Section of Digestive Diseases, Yale University School of Medicine, New Haven, CT, 06520-8019\*\*USA  
JOURNAL: Journal of Clinical Investigation 103 (6):p767-772 March, 1999  
ISSN: 0021-9738  
DOCUMENT TYPE: Article  
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11038424 BIOSIS NO.: 199799659569  
A multivalent PDZ-domain protein assembles signalling complexes in a G-protein-coupled cascade.  
AUTHOR: Tsunoda Susan; Sierralta Jimena; Sun Yumei; Bodner Ruth; Suzuki Emiko; Becker Ann; Socolich Michael; Zuker Charles S(a)  
AUTHOR ADDRESS: (a)Howard Hughes Med. Inst., Dep. Neurosci., Univ. California at San Diego, La Jolla, CA 92093-0649\*\*USA  
JOURNAL: Nature (London) 388 (6639):p243-249 1997  
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